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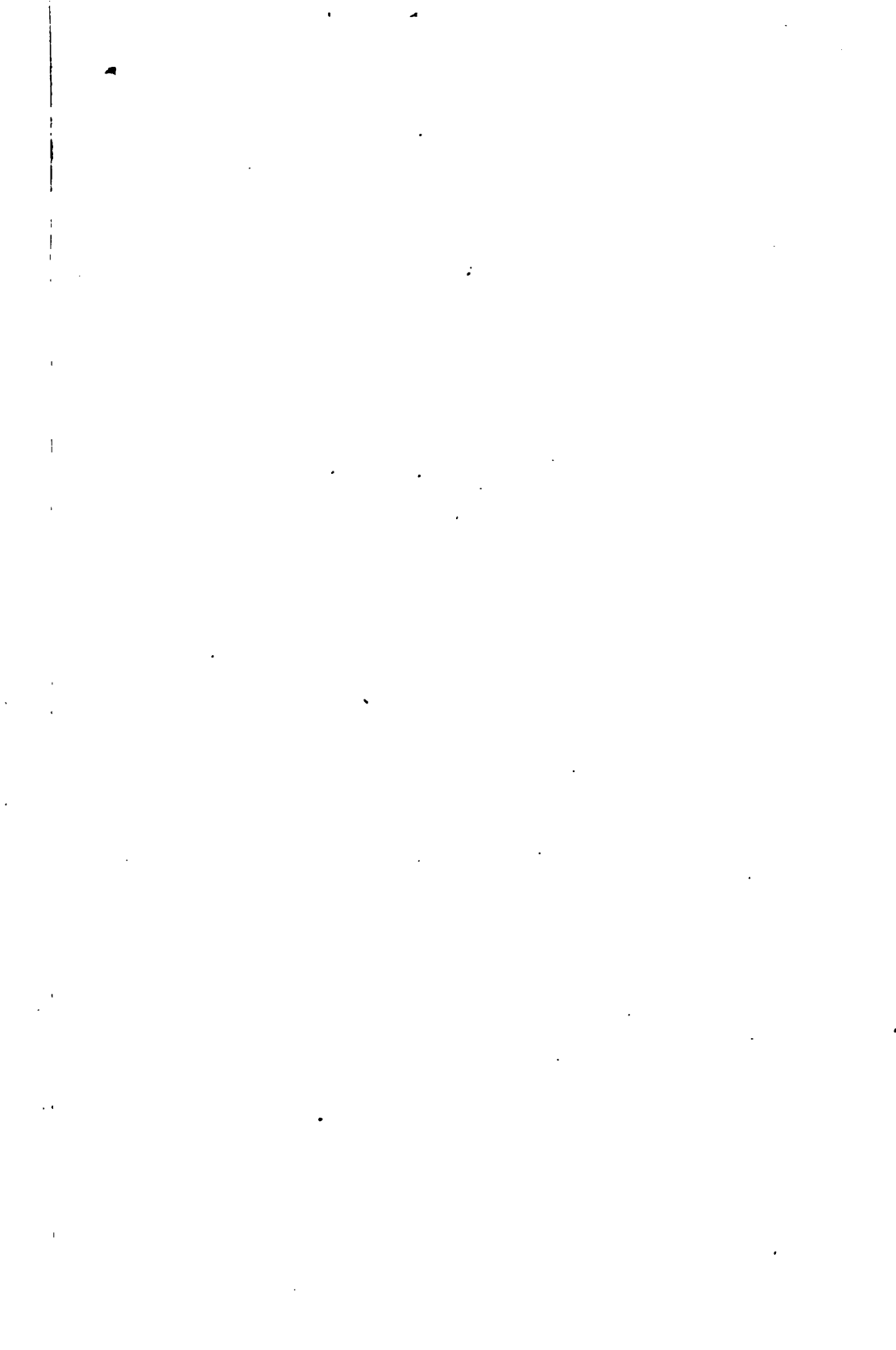
City of Cleveland

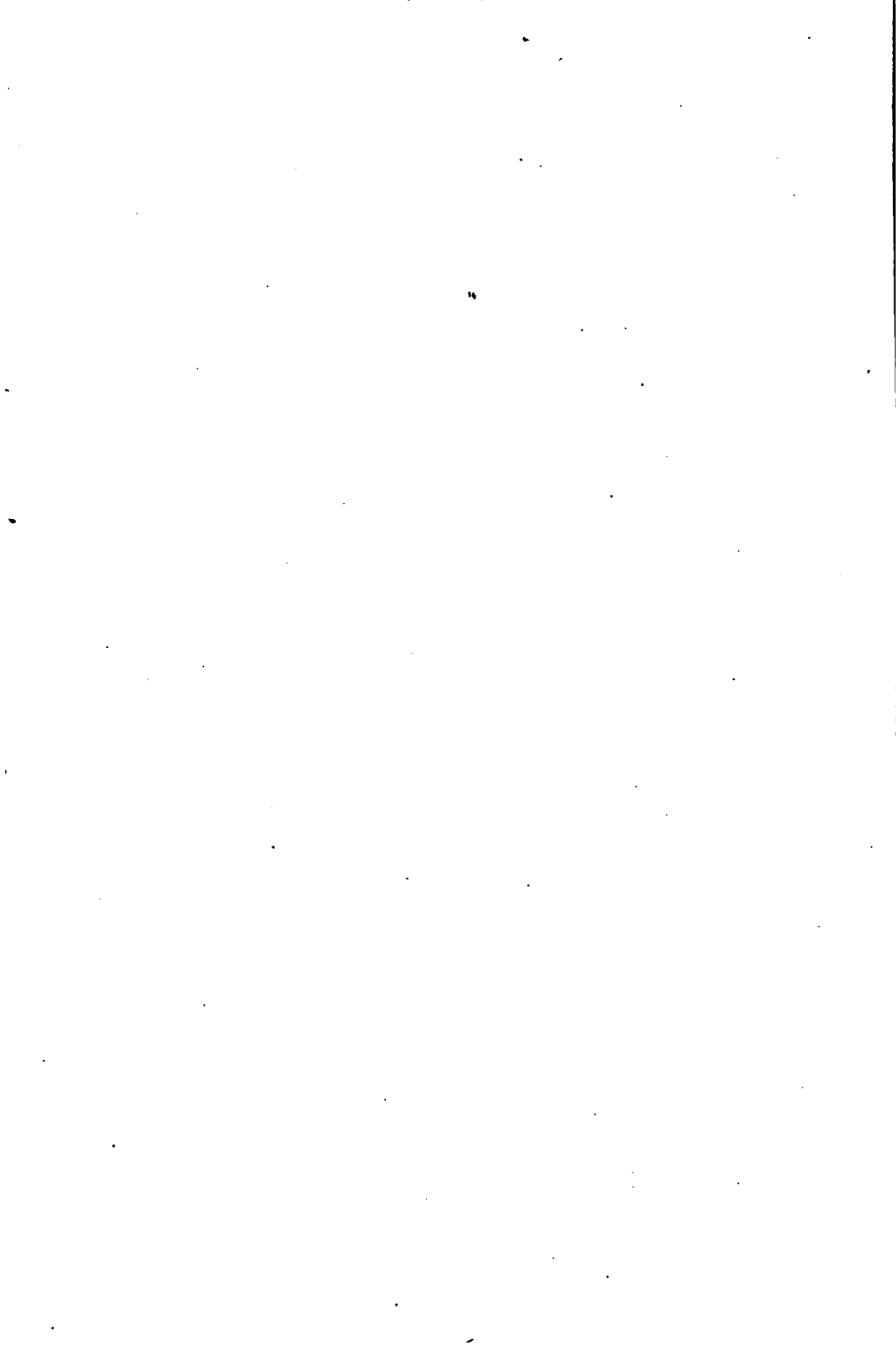
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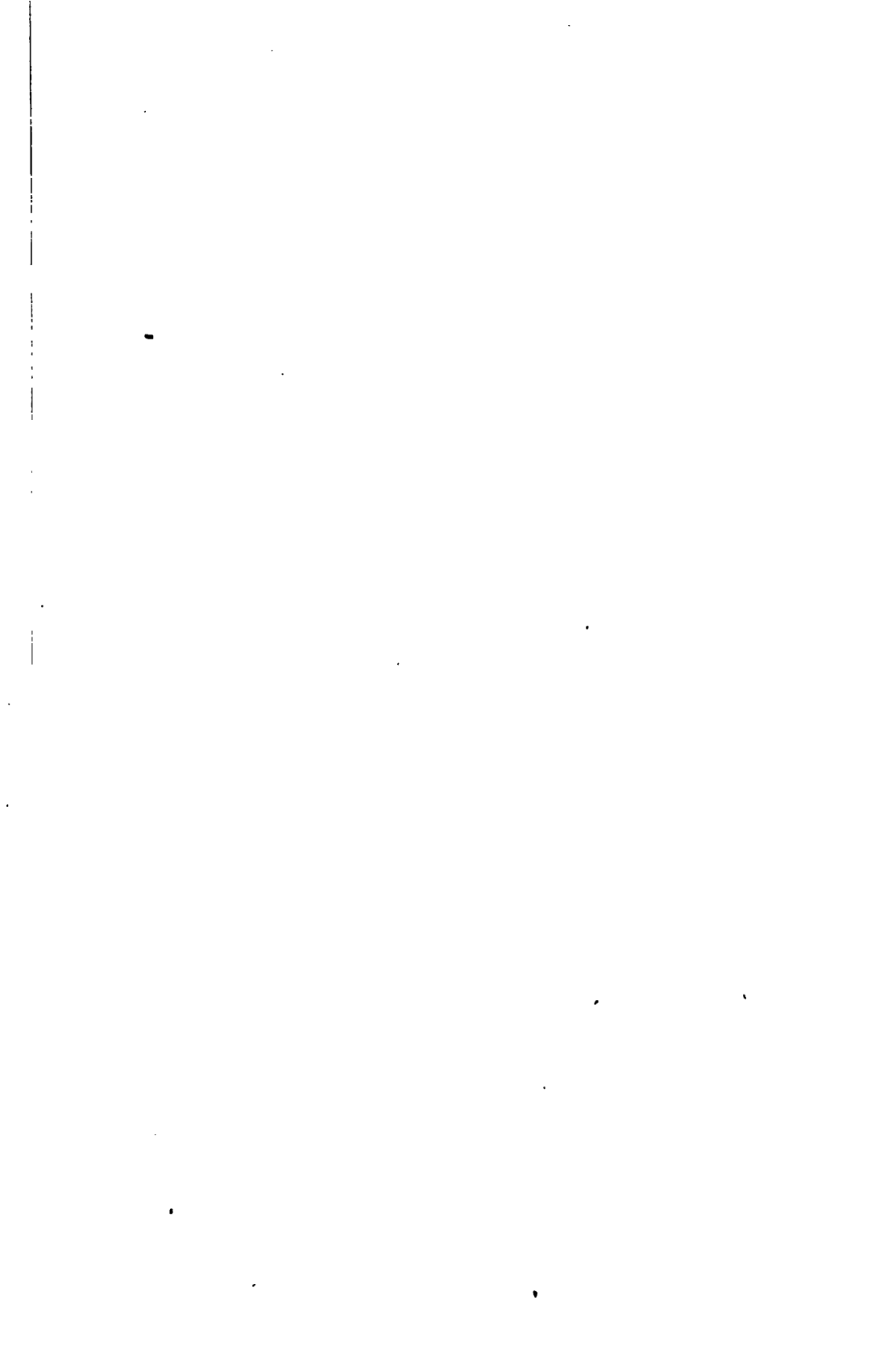
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ANNUAL REPORTS

OF THE

47044

DEPARTMENTS OF GOVERNMENT

OF THE

CITY OF CLEVELAND

FOR THE

Year Ending December 31, 1893.

CLEVELAND, O. :
J. B. SAVAGE, PRINT.
1894.



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1893.

CITY GOVERNMENT
OF THE
CITY OF CLEVELAND.

MAYOR.

ROBERT BLEE.

DIRECTOR OF LAW,

JAMES LAWRENCE.

DIRECTOR OF PUBLIC WORKS,

JOHN H. FARLEY.

DIRECTOR OF FIRE SERVICE.

HERBERT H. HYMAN.

DIRECTOR OF POLICE,

WM. C. POLLNER.

DIRECTOR OF ACCOUNTS,

WM. A. MADISON.

DIRECTOR OF CHARITIES AND CORRECTION,

WM. J. MCKINNIE.

CITY CLERK,

HOWARD H. BURGESS.

CITY TREASURER,

WILLIAM W. ARMSTRONG.

COUNCIL.

1893-94.

OFFICERS.

A. J. MICHAEL,
President.

W. A. SPILKER,
Vice-President.

MEMBERS OF THE COUNCIL.

WARDS.	DIST.	NAMES.	RESIDENCE.	PLACE OF BUSINESS.	TEL. NO.
1-2	1	*B. W. Jackson.....	42 Eagle street.....	42 Eagle street.....	2699
3-4		†Louis S. Bland.....	Wilmot Hotel.....	68 Public square.....	1898
5-6	2	*P. C. O'Brien.....	180 Dodge street.....	9 Prospect street.....	109-2441
7-8		†P. J. McKinney.....	21 Kelley street.....	21 Kelley street.....	1175
9-18	3	*J. K. Cole.....	Superior st. and Ansel ave.....	Otis Steel Works.....	373
19		†H. M. Case.....	64 Sixth street.....	64 Sixth avenue.....	1163
10-11	4	*A. J. Michael.....	561 Euclid avenue.....	236 Superior street.....	2161
12-14		†C. A. Davidson.....	106 Cedar avenue.....	Stone's L'v & Scowden.....	192-500
13-15	5	†Walter I. Thompson.....	612 Orange street.....	1480 Willson avenue.....	897
16-17		†Albert Straus.....	345 Sterling avenue.....	29 Mercantile Bank Bldg	314
20-21	6	*E. C. Angell.....	78 Harriet street.....	Standard S. M. Co.....	3081
22-23		†D. O. Caswell.....	Fairmount place.....	415 Society for Savings...	924
24-25	7	*M. J. Herbert.....	1749 Harvard street.....	261 Arcade.....	2449
26-27		†Frank Hesoun, Jr.....	33 Hollit-ter street.....	139-140 Water street.....	372-2326
28-29	8	*M. C. Malloy.....	46 Root street.....	Pickands, Mather & Co.....	214-538
30-31-32		†M. F. Barrett.....	240 Washington street.....	Clev. Bronze & B. Wks...	2539
33-34	9	*W. A. Spilker.....	32 Monroe street.....	33-45 Merwin street.....	2050
35-36		†John Wilhelm.....	87 Burton street.....	17 Union Depot.....	752
37-38	10	*Fred. M. Giessen.....	49 Marvin avenue.....	C. & P. Freight Office.....	67
39-40		†J. C. Hardenbergh.....	720 Castle avenue.....	720 Castle avenue.....	1486

*Term expires April, 1894.

†Term expires April, 1895.

Democrats in Italics.

STANDING COMMITTEES—CITY COUNCIL.

1893-94.

Appropriations	O'Brien, Thompson, Davidson.
Charities and Correction	Angell, Bland, Wilhelm.
Claims and Accounts.....	Malloy, Hardenbergh, Straus.
City Property.....	Giessen, Case, Bland.
Department Examination.....	Barrett, Giessen, Spilker.
Finance.....	Bole, Davidson, O'Brien.
Fire.....	Spilker, Thompson, Herbert.
Harbors and Wharves.....	McKenney, Angell, Hardenbergh.
Judiciary.....	Straus, Caswell, Wilhelm.
Licenses.....	Bland, McKenney, Case.
Labor.....	Hardenbergh, Malloy, Angell.
Lighting.....	Caswell, Jackson, Hesoun.
Ordinances.....	Case, Caswell, Barrett.
Police.....	Jackson, Spilker, O'Brien.
Printing.....	Thompson, Caswell, Herbert.
Public Works.....	Hesoun, Giessen, McKenney.
Public Offices and Officers.....	Herbert, Malloy, Bole.
Streets and Railways.....	Davidson, Bole, Malloy.
Taxes and Assessments.....	Wilhelm, Straus, Barrett.

REPORTS
OF
THE MAYOR, DIRECTORS,
AND
CITY OFFICERS.



Mayor's Annual Message.

Gentlemen of the Council:

In accordance with the law of the State, I have the honor to "report concerning the affairs of the corporation," and it becomes my duty to submit opinions and recommendations on matters pertaining to the material resources of the city. Extravagance in conducting public business is a tyrannical burden upon the people, and cannot be too loudly denounced. Extreme penuriousness at the expense of common comfort, convenience and safety to life and property is a foolish policy and should be adequately censured. I deem it a good policy, however, that the city should have such improvements as shall conduce to the greatest benefit of the people and the advancement of general business, even though a somewhat larger degree of cost should fall upon the citizens; on the principle that it is better to pay a fair price for something substantial and likely to be profitable than to obtain for nothing that which is imperfect, burdensome, and probably dangerous.

The details of the finances of the city, its assets, disbursements, receipts, and accounts, and the work of the several branches of the other departments of the city would require the survey of a very wide field, and may be obtained in all their particulars from the reports of the heads of departments.

I find from the report of the City Auditor the finances of the city are in a satisfactory and prosperous condition, and I think will, upon an impartial and unbiased examination, meet the ap-

proval of any fair-minded citizen. I will refer to some matters of statement on that subject. The ordinary expenses of the year 1892 as shown by the last Auditor's report were \$1,850,237.92. The ordinary expenses of the year 1893, as shown by the Auditor's report, were \$1,798,556.29, a difference in favor of 1893 of \$51,681.63. It must be explained, however, that a number of bills contracted in 1891 were not paid until 1892, and should properly be charged to the preceding year. The custom heretofore has been to pay in January all bills contracted in the preceding month of December, treating them as belonging to the new year. If the expense of the current year was out of proportion to the expense of the previous year, for the purpose of making a favorable comparative showing, a temptation to delay payment of bills until the new year was very strong. In table No. 3 of the Auditor's report an attempt has been made to compare the expenses of 1892 with the expenses of 1893 by setting aside from the expenses of 1892 and deducting therefrom the paid bills belonging to 1891. This table shows that the actual expenses of 1893 have increased over the expenses of 1892 in the sum of \$98,031.95. This increase, however, is not greater than the increase in population will warrant. Over 25 per cent. of the increase is due to the extra needs of the Infirmary department by reason of the extraordinary demands on account of the outdoor relief occasioned by the stringency of the times; also the increase of the expenses in the fire department is nearly 25 per cent. of the total increase for the reason that the establishment of new fire stations and the employment of extra firemen demanded the increased expense. For the same reason the increased expense in the police department may be accounted for. The defect of the accounting system referred to, by which the indebtedness of one year is made to belong to the following year, because paid in the latter, has been remedied by the inauguration, on the first of July last, of the new system, by which all bills are paid when contracted, or within a very short time thereafter,

with the proper distribution into permanent improvements and operating expense accounts. By this system the accounts of every year will be contracted and paid therein, and the Auditor will thereby be able to make a more exact and intelligent statement.

The institution by the Auditor of the new system of paying bills when they become due and are presented, or as soon after that as the respective directors have become satisfied of their correctness, should be commended, and meets with my hearty approval. Under this system, a certain sum is set aside by the Council for the Auditor to disburse from, and as soon as claims are audited, the Auditor can pay them. Under the system formerly practiced, the claims had to be presented to the Council, and claimants and employes were obliged to wait for their pay until about the 20th of the month following such presentation. By reason of this change, contractors, merchants, and others doing business with the city have been able to pay their employes more promptly, and thus much benefit has resulted during the hard times of last year.

The bonded indebtedness of the city for 1892 was \$8,704,680.87, and for 1893 it was \$9,625,867.92, showing an increase of \$921,187.05. This increase has been divided as follows:

For the purpose of increasing the efficiency of the fire department.....	\$247,000 00
For repairing and building new bridges.....	285,000 00
For street improvements by reason of the increased amount of work on pavements and sewers in the department of public works.....	389,187 05

The total amount of the indebtedness of the city is less than 5 per cent. on the assessed valuation, and as long as the debt be held below that limit, the credit of the city of Cleveland will stand second to no other city in the country.

The indebtedness of the city for parks, boulevards, and matters that are in the line of luxuries rather than necessities, should not be so rapidly increased as to impair or limit the city credit for things that are essential and that are liable to develop from time to time. The completion of a costly park system should not be crowded into a short space of time, but should, like other improvements, keep fair pace with the growth of the city and its ability to pay.

The city has recently made acquisitions of territory and population by the annexation of a portion of East Cleveland township and the village of West Cleveland. In view of that fact I would suggest that the Council, and city government generally, treat our newly acquired citizens with every favor possible and the most liberal consideration.

I thank the Council of 1893 for their able efforts during the year last past in conducting the legislative branch of the city government and the able assistance which they have given the Mayor and Board of Control in conducting the work and promoting the city's interests and the interest of all its citizens.

The year last past has been one of depression in business, and necessarily has worked a hardship to all of our business interests and to all our citizens. Every effort has been made by our business men and our church people of all denominations to care for and provide for the needy during this trying ordeal, and I firmly believe that the good people of the city of Cleveland, regardless of creed, race, or color, or of political affiliations, deserve great credit for their voluntary financial aid and valuable services rendered the city officials during the late crisis in caring for our worthy and needy people, and in this regard Cleveland, I can safely say, stands first on the list in the State of Ohio, yes, or any other sister State.

The sky in the business world seems to be brightening and

the clouds clearing away, and we fondly hope for a speedy resumption of business as in years gone by.

While I realize that slight reductions in wages of employes may be necessary for a time or until demand for materials or goods manufactured is greater, I would suggest that all employes be just and fair, and not take undue advantage of their employes in reducing them below living wages for the care and comfort of their families, and at such a rate as would debar themselves and their dependents from the necessaries of life, and the education of their children; and at the same time employes should not be unreasonable in their demands, always viewing the situation calmly and in its true light; and I sincerely trust that all of our citizens will take a lesson from the long, dull winter which we have just passed through and make it a point to save their earnings in order to be prepared to meet an emergency should it again occur, but which I hope will never exist.

I wish especially to urge a speedy movement on the part of the City Council and of our members of the Legislature towards the erection of a new City Hall for our city. The time has arrived when something should be done in this direction. The lease on our present City Hall expires on April 1, 1900, and should the order be given at once to start on the plans and location for a new City Hall, we have no time to spare in the arranging for and the erection of a new building, which should be properly constructed and absolutely fire-proof. The present City Hall is not properly constructed to conduct the business of a city of the size and future of Cleveland; besides, it is a bill of expense to the city of over thirty-seven thousand dollars (\$37,000) per year, as follows:

Fixed rental per year as per lease.....	\$36,000 00
Taxes per year for seven years last past.....	6,730 45
Repairs on building for same period	4,591 85

Total per year for seven years.....\$47,322 30 .

Deduct amount received from rent per year
for same period, viz..... 10,049 00

which, deducting from amount paid, leaves a
total..\$37,273 30

cost to the city for the present City Hall per year; and last, but by no means least in consideration is, that in case of destruction by fire of the present City Hall, the loss would be irreparable, as all city records, maps, and other valuable papers and information which is the accumulation of years, would undoubtedly be destroyed and gone forever by reason of fire, and the city, in my opinion, could never repair the loss; besides, it would work great hardship and expense upon our citizens. I would also recommend that if a City Hall is built it should be located so that it will be in the center of the city, or as nearly so as possible, and where all citizens can reach it by paying one fare on a street car, and be landed as near the main entrance of the hall as possible. The erection of such a building should be in the hands of competent men who have the interest of the city and citizens at heart, and men who are above reproach as to rings or jobbery of any kind. Every dollar the tax-payers pay for this improvement should go into the building, and not into the pockets of any man or party of men for their personal use.

I will again urge, that for the benefit of our city and its marine interests, the Cuyahoga River be improved, and that its channel be made deep enough, on the improved plan of dredging, so that our largest vessels can run with safety, deep laden, from the entrance of the Cuyahoga River to Jefferson street bridge.

Our fire department has been greatly improved the last year, and engine houses have been located in the different parts of the city where they will best protect the citizens' interest, and new engines have been placed therein. We will soon have six new fire engines and a new fire-boat in service; all on the latest improved designs, and with this, I think our city will be well

protected against conflagrations. There have been water mains for fire service put in from the foot of Superior street through the business portions of Superior street and connecting streets to Ontario street, for the purpose of utilizing the fire-boats in case of a large fire in the business portions of the down-town districts or in case of a scarcity of water at the water works. I would recommend that this system be extended on Superior street, and on Euclid avenue to Erie street, and on Ontario street to the market house, with the proper hydrants at street intersections. This improvement I deem very important and worthy of careful consideration and immediate action.

Our present police force is utterly inadequate for the protection and well being of our city and our citizens; many of the police beats of the city being wholly unprotected, and our policemen are undertaking, through necessity, to cover altogether too much territory. The city should have at once not less than seventy-five more policemen. We have erected several police stations, including the new Central police station, which is now nearly completed, and I believe will be a credit to our city.

Our streets have been greatly improved in the way of paving and sewerage during the last year, and we hope to show a marked improvement during the year of 1894.

The funds of the city have been handled judiciously and honestly, and the city finances are at this date in a very flourishing condition, as will be shown by the Director of Accounts' annual report.

For a better understanding of the city's affairs, please see the annual reports of the several Directors of their respective departments, which reports are given in detail.

In conclusion, I wish to express my heart-felt thanks to the members of the City Council of the city of Cleveland, and the members of the Board of Control; also to City Clerk Burgess, and others connected with the city government, for their kind

and courteous treatment toward me during my first year as chief executive of the city, and for the able and honest manner with which they have conducted the affairs of the city in their respective departments during the year last past. I also extend thanks to the press for their manly treatment and uniform kindness, and before closing I will kindly ask the new Council to lend me their aid and hearty co-operation in all matters that may seem to them to be fair and for the best interests of the city of Cleveland and all our citizens.

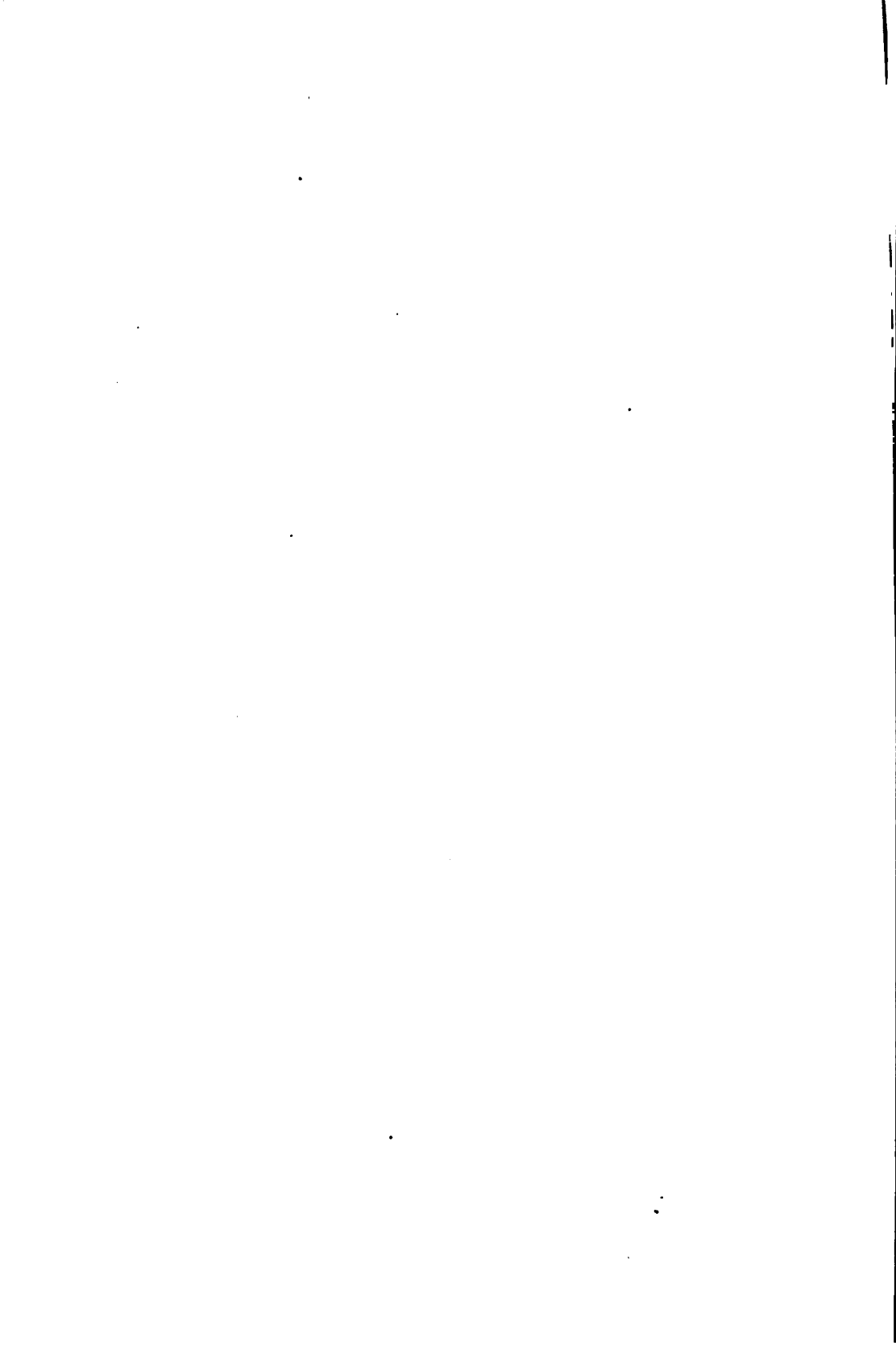
Respectfully submitted,

ROBERT BLEE, *Mayor.*

REPORT

OF THE

CITY CLERK.



City Clerk's Report.

CITY OF CLEVELAND,
OFFICE OF THE CITY CLERK,
MAY 1, 1894. }

To the Council:

I herewith submit the annual report of the City Clerk's department for the year ending December 31, 1893. The amount of business transacted by the Council is represented in the briefest detail by the following tables. The attendance at the meetings of the Council has been unusually good, there having been but very few absentees during the entire year. The depressed state of business largely affected the receipts for licenses, which would have otherwise shown a large increase. The money received for building permits was \$2,220 less than the preceding year.

LICENSES

Have been issued from this office during the year of 1893
as follows:

	No.	Amount.
Building.....	3,988	\$ 5,768 45
Engineers'.....	1,536	422 50
Peddlers'.....	1,568	10,860 00
Gardeners'.....	221	2,210 00
Exhibition.....	53	707 00
Express, etc.....	333	999 00
Cabs, etc.....	—	—
Pawnbrokers'.....	13	650 00
Dogs.....	—	—
Docks.....	10	425 50
Ferries.....	2	20 00
Street Cars.....	692	6,920 00
Temporary Dealers.....	4	120 00
Total.....	8,370	\$ 29,102 45

The above amount has been duly deposited in the City
Treasury to the credit of the proper fund as follows:

To the credit of the Fire Fund.....	\$ 5,768 45
“ “ “ General Fund.....	3,344 00
“ “ “ Market Fund.....	13,070 00
“ “ “ Street Fund.....	6,920 00
Total deposits.....	\$ 29,102 45

PROCEEDINGS OF COUNCIL.

Number of meetings held :

Council regular meetings	52
" special " 	—
	<hr/>
Total meetings.....	52

Amount of business transacted :

Petitions.....	181
Claims	22
Communications	1207
*Ordinances.....	588

RESOLUTIONS:

Streets	1790
Lighting.....	370
Miscellaneous	390
" Papers	282
	<hr/>
Total.....	2832
Total papers.....	4830

*Ordinances passed, 562.

CLAIMS FOR DAMAGES FOR STREET
IMPROVEMENTS.

NAME.	NO. OF CLAIMS.	AMOUNT.
Canal St.....	3.....	\$ 13,000 00
Kennedy St.....	3.....	100 00
Lyon St.....	2.....	250 00
Wason St.....	1.....	20 00
	—	—
Total	9.....	\$ 13,550 00

AMOUNT PAID FOR OFFICIAL ADVERTISING
FOR YEAR 1893.

Month.	World.	Leader.	Plain Dealer.	Waechter.	Press.	Total.
January	\$ 251 03	.....	\$ 14 66	.....	.....	\$ 265 69
February	449 56	\$ 4 77	195 72	.....	.....	650 05
March.....	920 37	13 88	427 16	.....	.....	1,361 41
April.....	656 40	.....	393 65	.....	.....	1,060 05
May.....	856 61	65 55	255 39	.....	.....	1,177 55
June	640 41	43 56	217 74	.....	.....	901 71
July.....	373 57	263 63	379 16	.....	.....	1,016 36
August .....	.....	229 24	202 68	.....	.....	431 62
September.....	.....	384 93	166 34	.....	.....	551 27
October.....	.....	400 74	297 28	\$ 6 00	\$ 7 00	711 02
November .....	.....	427 12	667 97	4 20	.....	1,099 29
December.....	.....	191 78	46 50	.....	.....	238 28
Total	\$4,147 95	\$2,025 20	\$3,263 95	\$ 10 20	\$ 7 00	\$9,454 30

OFFICIAL ADVERTISING FOR YEAR 1893
BY DEPARTMENTS.

Paper.	Executive.	Accounts.	Public Works.	Police.	Charities and Correction.	Legislative.	Fire.	Total.
World	\$23 53	\$13 65	\$ 7 50	.....	.....	\$4103 27	.....	\$4,147 95
Leader	45 01	4 47	409 00	\$38 09	\$1 63	1483 27	\$43 73	2,025 20
Plain Dealer.....	7 55	19 00	493 94	11 55	6 27	2701 14	24 50	3,263 95
Waechter.....	4 20	.....	6 00	.....	.....	.....	.....	10 20
Press .....	.....	.....	7 00	.....	.....	.....	.....	7 00
Total	\$90 29	\$37 12	\$923 44	\$49 64	\$7 90	\$8287 68	\$68 23	\$9,454 30

Respectfully submitted,

HOWARD H. BURGESS,

City Clerk.

DEPARTMENT

OF

ACCOUNTS.

City Auditor's Department.

W. A. MADISON, - - - - - Auditor.
FREDERICK GREEN, - - - - - Deputy Auditor.
LEWIS B. FOOTE, - - - - - Accountant.
A. F. CROSBY, - - - - - Accountant.
P. J. WAGNER, - - - - - Book-keeper.
ANDREW MOONEY, - - - - - Book-keeper.
CHARLES M. KNIGHT, - - - - - Book-keeper.
CLARA WHEELER, - - - - - Bond Clerk.
C. C. SNOW, - - - - - Ass't in Tax Dep't.
MICHAEL FLEMING, - - - - - Ass't in Tax Dep't.
MARY RILEY, - - - - - Ass't in Tax Dep't.
MARY E. GANNON, - - - - - Ass't in Tax Dep't.
E. A. STOCKWELL, - - - - - Draughtsman.
MAX BENDER, - - - - - Messenger.

Annual Report of the City Auditor.

CLEVELAND, O., February 1st, 1894.

To the Hon. Robert Blee, Mayor :

SIR:—As required by law, I herewith respectfully submit my annual report for the fiscal year ending December 31st, 1893; said report being embraced in the following tables :

TABLE NO. 1.—A general exhibit of receipts and disbursements in 1893.

TABLE NO. 2.—Analysis of receipts and disbursements of each general fund for 1893.

TABLE NO. 2 A.—Analysis of receipts and disbursements of the Park Funds from May 1, '93, to Jan. 1, '94.

TABLE NO. 3.—A comparison of ordinary expenses paid from general funds for the years 1892 and 1893.

TABLE NO. 4.—The condition of each fund and account January 1st, 1894.

TABLE NO. 5.—The municipal levy for each general fund in the tax of 1893.

TABLE NO. 6.—Amount and proceeds of all bonds issued in 1893.

TABLE NO. 7.—Amount and maturity of general bonds outstanding January 1st, 1894.

TABLE NO. 8.—Amount and maturity of street improvement bonds outstanding January 1st, 1894.

TABLE NO. 9.—Amount and maturity of street damage bonds outstanding January 1st, 1894.

TABLE NO. 10.—Amount and maturity of sewer bonds outstanding January 1st, 1894.

TABLE NO. 11.—Recapitulation of bonds outstanding January 1st, 1894.

TABLE NO. 12.—Comparison of city debts of all kinds January 1st, 1893, and January 1st, 1894.

TABLE NO. 13.—Principal and interest of maturing bonds and notes.

TABLE NO. 14.—A comparative showing of general items for 23 years, 1871 to 1893, inclusive.

TABLE NO. 15.—Estimate for tax levy of 1893 upon sewer districts.

TABLE NO. 16.—List of assessment rolls prepared by the Department of Accounts and levied in the tax of 1893.

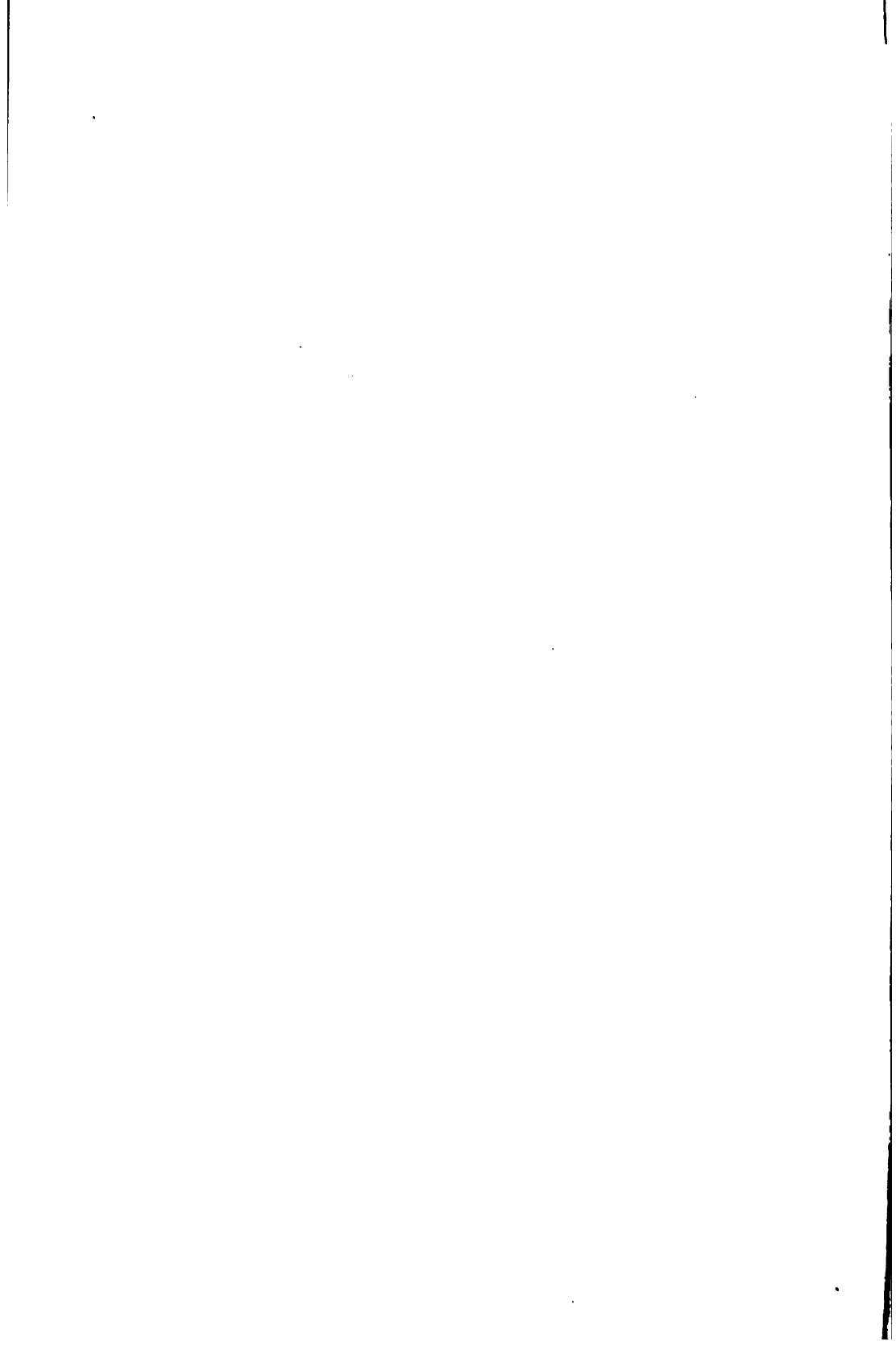
TABLE NO. 17.—Amount of taxes levied in each main sewer district.

TABLE NO. 18.—Results in 1893.

TABLE NO. — —The sinking funds.

Respectfully submitted,

W. A. MADISON, *City Auditor.*



TABULAR EXHIBIT.

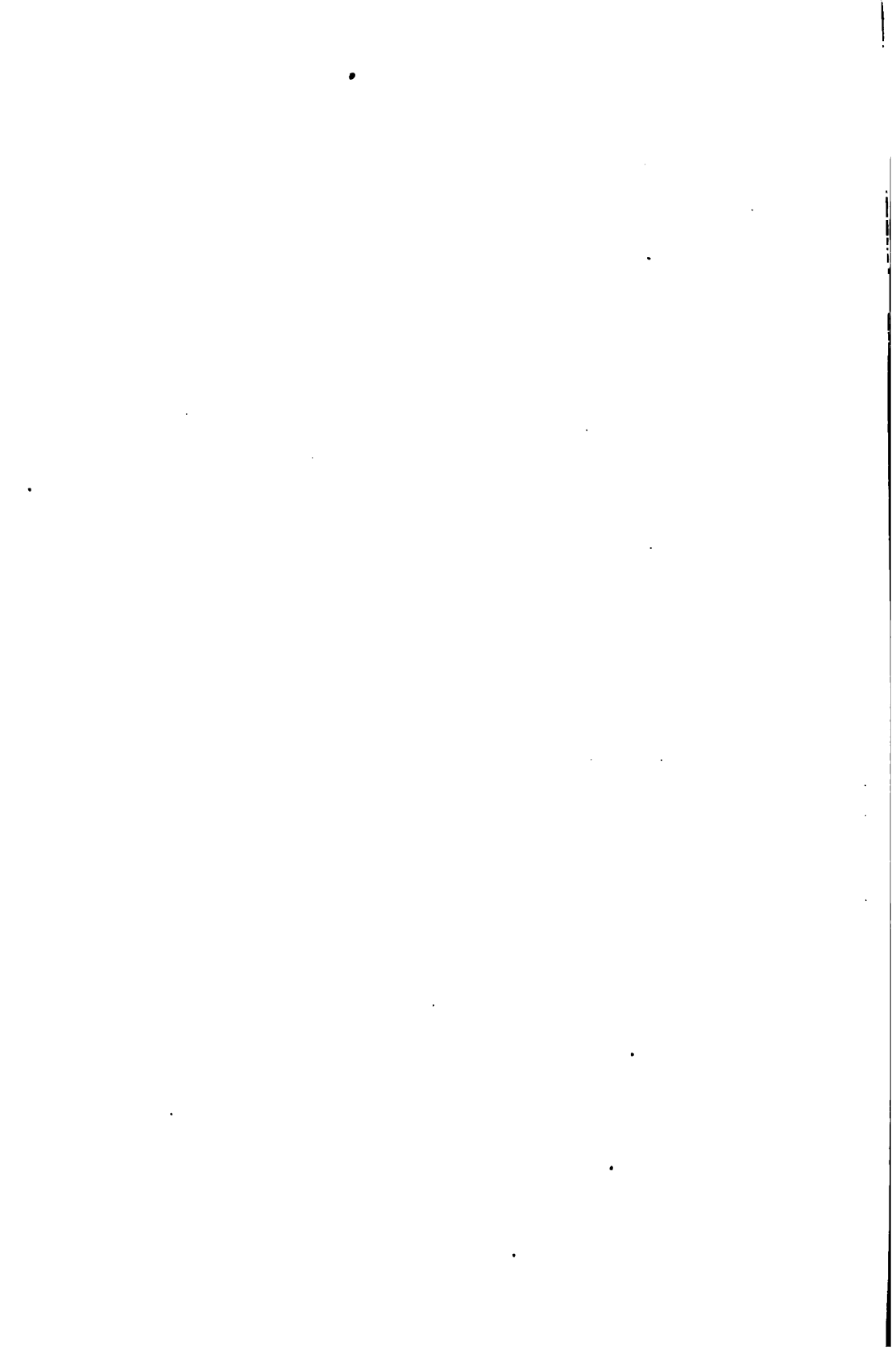


TABLE NO. I.

A GENERAL EXHIBIT OF THE RECEIPTS AND DIS-
BURSEMENTS FOR THE YEAR 1893.

RECEIPTS.			
Cash on hand January 1st, 1893.....			\$1,308,582 65
Taxes—General levy.....	\$1,621,967 62		
Sewer District.....	120,382 52		
Special.....	550,935 45		
Liquor.....	386,440 09	\$2,679,705 68	
Portion of levy for 1894 (undivided).....		125,000 00	
Portion of Liquor tax for 1894 (undivided).....		75,000 00	
Sale of bonds.....		1,779,519 10	
Sale of notes.....		177,888 00	
From Gas Companies, (percentage of receipts,).....		42,113 00	
For removal of Night Soil.....		31,502 72	
Erie St. Paving Rebate. Rec'd from Cleveland City Ry. Co..		2,493 40	
Sale of City Farm School (part payment).....		1,750 26	
Special Improvements and Miscellaneous funds paid into City Treasury.....		60,813 81	
Earnings credited to—			
Bridge Fund.....	\$ 3,118 35		
Cemetery Fund.....	36,615 82		
Fire Fund.....	8,976 40		
General Fund.....	31,654 05		
House of Correction Fund.....	83,175 05		
Infirmary Fund.....	33,243 64		
Interest Fund.....	66,047 58		
Market Fund.....	48,635 18		
Police Fund.....	99 81		
Police Court Fund.....	17,662 35		
Park Fund.....	1,339 05		
Street Fund.....	22,345 41		
Sanitary Fund.....	2,604 81		
Water Fund.....	575,582 54	\$631,100 04	
Total receipts.....		\$5,906,886 01	\$5,906,886 01
Total to be accounted for.....			\$7,215,448 66

TABLE NO. I—*Continued.*

DISBURSEMENTS.		
Ordinary expenses for 1893.....		\$1,798,556 29
Ordinary expenses of December, 1892, paid January, 1893.....		159,388 08
General bonds.....		515,000 00
Water bonds.....		200,000 00
Special bonds.....		152,000 00
Interest on general bonds.....		302,420 00
Interest on water bonds.....		95,150 00
Interest on special bonds.....		64,290 00
Brooklyn Village bonds.....		2,275 95
Interest on Brooklyn Village bonds.....		579 24
City notes.....		85,4 5 00
Interest on city notes.....		9,808 26
Taxes refunded.....		28,947 41
Commission to American Exchange National Bank.....		1,567 04
Paid Board of Education in settlement of claim for interest on shortage of ex-city treasurer, Thos. Axworthy.....		15,061 50
Special improvements and miscellaneous.....		1,382,301 45
Permanent improvements (Table No. 2) paid from following funds:		
Bridge.....	\$ 16,384 45	
Cemetery.....	1,151 31	
Fire.....	23,307 84	
House of Correction.....	375 00	
Infirmary.....	11,858 37	
Park.....	5,524 83	
Police.....	35,688 11	
Sanitary.....	161 00	
Street.....	500 00	
Water.....	310,531 99	
		\$ 405,482 90
Total disbursements.....		\$5,168,243 12
Warrants outstanding December 31, 1892, paid in 1893.....		32,112 13
Cash on hand January 1, 1894.....		2,015,093 41
Total accounted for.....		\$7,215,448 66

TABLE NO. 2.

ANALYSIS OF RESOURCES AND DISBURSEMENTS OF
THE MUNICIPAL FUNDS OF THE CITY OF
CLEVELAND FOR THE YEAR 1893.

GENERAL FUND.		
DIVISION I.		
Cash Balance, January 1, 1893.....		\$26,390 54
RECEIPTS.		
Taxes—City levy.....	\$ 124,317 81	
Liquor tax.....	144,915 03	
	\$ 269,232 84	
Earnings—City Hall rents.....	8,937 31	
Justice fees.....	13,147 29	
Permits and licenses.....	9,569 45	
	31,654 05	
Reimbursements.....	9,902 28	
Transfers from market fund.....	170 00	
		310,959 17
DISBURSEMENTS.		
Current Expenses—Mayor's Department.....	38,568 63	337,339 71
Public Works ..	146,597 37	
Auditor's ..	20,843 68	
Law ..	13,873 24	
Char. and Cor. ..	1,253 92	
Legislative ..	34,658 32	
Treasurer's ..	8,874 92	
Elections ..	14,458 52	
Judicial ..	31,761 45	
		310,590 05
Total ordinary expenses.....		310,590 05
Cash balance January 1, 1894.....		\$16,749 66

TABLE NO. 2—Continued.

BRIDGE FUND.			
DIVISION NO. 2.			
Cash Balance January 1, 1893.....			\$ 8,009 38
RECEIPTS.			
Taxes—City levy.....	\$35,519 38		
County levy.....	29,515 62	\$ 65,035 00	
Earnings—Rents and sales.....		3,118 35	
Loans—Sale of bonds.....		285,000 00	
Transfer—From bridge and repair fund.....		35,109 45	388,262 80
DISBURSEMENTS.			386,371 18
Ordinary expenses.....		66,380 13	
Repairing and repairs.....		18,229 69	
Permanent improvements.....		16,384 45	102,994 27
Cash balance January 1, 1894.....			\$ 293,277 91

STREET FUND.			
DIVISION NO. 3.			
Cash Balance January 1, 1893.....			\$7,176 18
RECEIPTS.			
Taxes—City levy.....		\$94,718 33	
Earnings—Bills and permits.....		22,345 41	
Transfers—From market.....		19,754 00	136,817 74
DISBURSEMENTS.			143,993 92
Ordinary expenses.....		139,033 56	
Crosswalks.....		500 00	139,533 56
Cash balance January 1, 1894.....			\$ 4,460 36

TABLE NO. 2—Continued.

WATER WORKS FUND.		
DIVISION NO. 4.		
Cash balance January 1, 1898		\$252,642 34
RECEIPTS.		
Earnings—Rents, connections, etc.	\$575,582 54	
Premium on bonds.....	8,257 01	
		583,839 55
Loans—Sale of bonds	200,000 00	
Deposits.....	10,648 48	
		210,648 48
		794,488 03
		1,047,130 37
DISBURSEMENTS.		
Current expenses.....		162,977 02
Permanent improvements.....		310,531 99
Bonds redeemed.....		200,000 00
Refunded.....		11,272 00
Interest on bonds.....		95,150 00
Meters, stops, boxes and tapping.....		22,275 02
		802,206 03
Cash balance January 1, 1894.....		\$244,924 34

TABLE NO. 2—Continued.

PARK FUND. *		
DIVISION No. 5.		
Cash balance January 1, 1893.....		\$ 2,834 23
RECEIPTS.		
Taxes—City levy.....	\$ 35,519 38	
Earnings—Rents and sales.....	1,339 05	36,858 43
DISBURSEMENTS.		
Ordinary expenses.....	30,850 04	39,692 66
Permanent improvements.....	5,524 83	36,374 87
Cash balance January 1, 1894.....		\$ 3,317 79

* This fund passed under the control of the Board of Park Commissioners on May 1st. For detail of their transactions see table No. 2 A of their report.

POLICE FUND.		
DIVISION No. 6.		
Cash balance January 1, 1893.....		\$ 9,807 49
RECEIPTS.		
Taxes—City levy	\$ 207,196 37	
Liquor tax.....	144,915 03	\$ 352,111 40
Earnings—Fees and sales.....	99 81	
Transfer—From Central Police Station fund.....	100,000 00	452,201 21
DISBURSEMENTS.		
Ordinary expenses.....	325,771 16	462,008 70
Permanent improvements.....	35 688 11	361,459 27
Cash balance January 1, 1894.....		\$ 100,549 43

TABLE NO. 2—Continued.

POLICE COURT FUND.		
DIVISION NO. 7.		
Cash balance January 1, 1893.....		\$ 1,121 64
RECEIPTS.		
Earnings—Fines and costs.....		22,938 35
DISBURSEMENTS.		
Current expenses—Witness and juror fees.....	7,473 55	
Salaries and miscellaneous.....	16,203 39	23,676 94
Cash balance January 1, 1894.....		\$ 383 05

MARKET FUND.		
DIVISION NO. 8.		
Cash Balance January 1, 1893.....		\$ 7,340 98
RECEIPTS.		
Earnings—Rents.....	\$ 29,434 13	
Licenses.....	13,085 00	
Fees.....	5,580 20	
Miscellaneous.....	535 85	48,635 18
DISBURSEMENTS.		
Ordinary expenses.....	24,188 76	
Transfers—To street fund.....	\$ 19,754 00	
To general fund.....	170 00	
To House of Correction fund.....	10,000 00	29,924 00
Cash balance January 1, 1894.....		\$ 1,863 40

TABLE NO. 2—Continued.

SANITARY FUND.		
DIVISION No. 9.		
Cash balance January 1, 1893.....		\$ 2,815 68
RECEIPTS.		
Taxes—City levy.....	\$ 32,559 43	
Earnings—Permits, etc.....	2,604 81	
Transfer—From hospital fund	25 87	
From garbage fund	1,877 95	37,068 06
		\$ 39,883 74
DISBURSEMENTS.		
Ordinary expenses.....	35,950 99	
Permanent improvements.....	161 00	36,111 99
Cash balance January 1, 1894.....		\$ 3,771 75

CEMETERY FUND.		
DIVISION No. 10.		
Cash balance January 1, 1893.....	\$ 34,326 99	
RECEIPTS.		
Earnings.....	36,615 82	
		70,942 81
DISBURSEMENTS.		
Ordinary expenses.....	\$ 26,344 12	
Permanent improvements.....	1,151 31	27,495 43
Cash balance January 1, 1894.....		\$ 43,447 38

TABLE NO. 2—Continued.

HOUSE OF CORRECTION FUND.		
DIVISION NO. 11.		
Cash balance January 1, 1893.....		\$ 12,406 08
RECEIPTS.		
Taxes—City levy.....	\$ 41,839 79	
Earnings—Sales, etc.....	83,175 05	
Transfer—From market.....	10,000 00	105,014 84
		\$ 117,420 87
DISBURSEMENTS.		
Ordinary expenses.....	111,163 07	
Permanent improvements.....	375 00	111,538 07
		\$ 5,882 80
Cash balance January 1, 1894.....		\$ 5,882 80

INFIRMARY FUND.		
DIVISION NO. 12.		
Cash balance January 1, 1893.....		\$ 14,019 18
RECEIPTS.		
Taxes—City levy.....	\$.	
Liquor Tax.....	96,610 03	
Earnings—Board and sales.....	33,243 64	129,863 67
		\$ 143,872 85
DISBURSEMENTS.		
Ordinary expenses.....	128,133 58	
Permanent improvement.....	11,858 37	139,991 95
		\$ 3,880 90
Cash balance January 1, 1894.....		\$ 3,880 90

TABLE NO. 2—Continued.

FIRE DEPARTMENT.		
DIVISION NO. 13.		
Cash balance January 1, 1893.....		\$ 24,301 00
RECEIPTS.		
Taxes—City levy.....	337,434 06	
Earnings—Fees, sales, etc.....	8,976 40	
Loans—Sale of bonds.....	247,000 00	593,410 46
		\$ 617,711 46
DISBURSEMENTS.		
Ordinary expenses.....	346,403 38	
Permanent improvements.....	23,307 84	369,711 22
Cash balance January 1, 1894.....		\$ 248,000 24

DREDGING FUND.		
DIVISION NO. 14—A.		
Cash balance January 1, 1893.....		\$ 394 50
RECEIPTS.		
Taxes—City levy.....	\$ 11,839 79	
Special assessments.....	13,501 96	25,341 75
		\$ 25,736 25
DISBURSEMENTS.		
Ordinary Expenses—		
Contract No. 374.....	19,718 25	
Inspection.....	1,370 25	
Abatements.....	1,750 00	
Miscellaneous.....	1,919 62	24,758 12
Cash balance January 1, 1894.....		\$ 978 13

TABLE NO. 2—Continued.

INTEREST FUND.		
DIVISION NO. 14—B.		
Cash balance January 1, 1893		\$ 2,794 22
RECEIPTS.		
Taxes—City levy.....	\$ 290,074 92	
Earnings—Interest on deposits	\$ 66,047 58	
Ac. interest and premiums.....	59,637 71	415,760 21
		\$ 418,554 43
DISBURSEMENTS.		
Interest on bonded debt.....	302,430 00	
Board of Education (Axworthy ac.).....	15,061 50	
American Exchange Bank (old coupons).....	145 50	
Transfer to Walworth opening.....	1,600 00	332,237 00
Cash balance January 1, 1894.....		\$ 86,317 43

LIGHTING FUND.		
DIVISION NO. 14—C.		
Cash balance January 1, 1893.....		\$ 44,583 33
RECEIPTS.		
Taxes—City levy.....	\$ 174,636 93	
Earnings—Sales.....	23 28	174,660 21
		\$ 219,253 54
DISBURSEMENTS.		
Public lighting—Gas.....	79,516 12	
Electric.....	21,289 03	
Vapor.....	60,184 85	
Care of lamps, etc.....	38,738 45	199,723 45
Cash balance January 1, 1894.....		\$ 19,530 09

TABLE NO. 2—Continued.

PAVING FUND.		
DIVISION NO. 14—D.		
Cash balance January 1, 1893.....		\$ 62,603 81
RECEIPTS.		
Taxes—City levy.....	\$ 118,397 91	
Reimbursements.....	1,246 70	119,644 61
DISBURSEMENTS.		
Advances to various funds ac. of city's portion of repaving, etc.....		\$ 182,248 42
		181,713 95
Cash balance January 1, 1894.....		\$ 534 47

STREET INTERSECTIONS FUND.		
DIVISION NO. 14—E.		
Cash balance January 1, 1893.....		\$ 85,127 42
RECEIPTS.		
Taxes—City levy.....	\$ 59,198 95	
Reimbursements.....	1,436 62	60,635 57
DISBURSEMENTS.		
Advances to various funds—		\$ 145,762 99
Account city's portion of paving and paving street intersections.....	67,457 44	
Miscellaneous expenses.....	1,225 61	68,683 05
Cash balance January 1, 1894.....		\$ 77,079

DEPARTMENT OF ACCOUNTS.

TABLE No. 3.
COMPARISON OF ORDINARY EXPENSES PAID FROM THE FOLLOWING FUNDS IN 1892 AND 1893.

No.	FUND.	Disbursements in 1893 on account of bills of expenses.	Payments of January, 1893, for amount of bills of 1892.	Actual expense of 1893.	Actual expense of 1892.	Increase over 1892.	Decrease from 1892.
1	General	\$310,590 05	\$35,794 16	\$274,796 89	\$274,054 46	\$ 741 41	.....
2	Bridge.....	68,890 13	2,489 18	66,890 95	63,116 54	2,774 41	.....
3	Street, (including Crosswalks).....	139,083 56	4,851 68	134,181 88	124,436 60	9,745 28	.....
4	Water	162,977 02	27,904 30	135,072 72	153,925 26	1,147 46	.....
5	Park.....	30,850 04	756 66	30,063 38	27,707 88	2,395 50	.....
6	Police.....	325,771 16	13,744 31	312,026 85	303,702 61	8,324 24	.....
7	Police Court.....	23,676 94	963 59	22,723 35	25,005 13	.....	2,281 78
8	Market	24,188 76	1,335 80	22,852 96	22,672 17	280 79	.....
9	Sanitary, (including Garbage).....	35,960 99	1,522 90	34,428 09	34,546 84	.....	118 75
10	Cemetery.....	26,344 12	1,816 67	24,527 45	30,300 49	.....	5,773 04
11	House of Correction.....	111,163 07	5,624 39	106,538 68	101,025 63	4,513 15	.....
12	Infirmary	128,133 68	10,873 09	117,260 49	95,018 85	22,241 64	.....
13	Fire.....	346,408 88	18,492 88	328,000 50	298,562 17	29,438 33	.....
14 A	Dredging	24,758 12	135 00	24,623 12	25,167 63	.....	544 51
14 B	Lighting.....	199,723 45	83,183 47	166,539 98	150,100 24	16,439 74	.....
	TOTAL.....	\$1,967,944 37	\$159,368 08	\$1,796,566 29	\$1,709,242 42	\$88,081 95	\$6,718 08

Net increase over 1892, \$89,313.37.

TABLE NO. 4.
STATEMENT OF THE CONDITION OF VARIOUS FUNDS
OF THE CITY OF CLEVELAND JANUARY 1, 1894.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January, 1893.
1178	Aaron St. sewer, Superior to Payne.....	\$.....	\$.....
1283	Alanson St. sewer, Cedar to Quincy.....		
1310	Alanson St. paving, Cedar to Central.....		
704	Allen St. sewer, Parkman to Brownell.....		
881	Andes Al. paving, Ohio to Cross.....	2,010 00	
1047	Apple St. sewer, Orchard to Harbor.....		
1474	Ashland Ave. grading, Central to Quincy.....		
1055	Asylum St. sewer, St. Clair to Superior.....	860 00	
247	Atlantic St. grading, Kinsman to Bessemer.....		
754	Auburn St. paving, Pearl to Scranton.....	2,000 00	
1117	"B" St. grading, Kinsman to "D".....		
1276	Barber Ave. sewer, Pearl to Hitchcock.....	1,800 00	
1044	Becker Ave. sewer, St. Clair to Superior.....		
1432	Beech St. paving, Central to Scovill.....	4,000 00	
1462	Beech St. paving, Scovill to Woodland.....	3,600 00	
1059	Belden St. sewer, St. Clair to Superior.....	1,200 00	
1179	Belden St. sewer, Payne to Mason.....		
1194	Belden St. grading, Superior to Payne.....		
1136	Bertram St. sewer, Cedar to Central.....		
1063	Birch St. sewer, Ravine to 450 feet S. of Lorain.....		
954	Bismark St. sewer, Woodland to Holton.....		
1180	Bolivar St. paving, Erie to 892 ft. East.....	9,000 00	
958	Bolton Ave. sewer, Quincy to Woodland.....		
1029	Bolton Ave. sewer, 1620 feet S. of Cedar to Quincy.....		
1070	Bolton Ave. paving Cedar to Quincy.....	8,000 00	
718	Bond St. paving, Summit to Superior.....	10,000 00	
914	Branch St. sewer, Scranton to Jennings.....		
905	Branch St. sewer, Jennings to Merchant.....		
	<i>Forward</i>		

TABLE NO. 4.—Continued.

Balance Credit January 1. 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts Overdrawn.	Cash on hand January 1. 1894.
\$ 126 34	\$ 1,223 05	\$ 1,096 71		\$.....
304 00	304 00			
479 50	28 00			451 50
103 61	103 61			
145 46	892 82	956 13		206 77
70 56	421 91	351 35		
	1,346 74	1,346 74		
304 89	943 72	976 26		337 43
29 17	289 17			
19	100 00	842 85		742 54
1,015 01	2,571 83	1,556 82		
	3,825 23	3,879 96		54 73
1,058 24	5,959 33	5,068 20		162 11
	4,549 44	5,927 08		1,377 64
	4,256 91	5,404 14		1,147 23
578 85	847 19	735 71		467 37
507 34	2,162 99	1,655 65		
259 47	852 15	592 68		
818 01	2,460 67	1,642 66		
320 86	1,021 42	700 56		
766 50	865 80	98 80		
	9,320 35	11,733 18		2,412 83
6,667 00	6,686 76	19 76		
375 14	1,321 32	946 18		
2,708 15	2,574 89	3,073 28		3,206 54
1,342 35	5,700 00	5,350 02		992 37
591 75	645 25	53 50		
675 45	675 45			

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1894.
	<i>Forward</i>		
932	Bridge St. sewer, Waverly to Courtland.....		
1045	Bridge St. sewer, Courtland to Liberty.....		
792	Bridge St. paving, Pearl to Liberty.....	19,000 00	
208	Broadway paving, Union to Miles.....		
207	Broadway paving, Independence to Union.....		
516	Broadway paving, Ohio to Independence.....		
1424	Broadway repaving, Union to Miles.....	73,000 00	
259	Broadway sewer, Union to Miles		
581	Brookfield St. paving, Hough to Enclid		
1091	Buhrer Ave. sewer, Jennings to Merchant.....	1,000 00	
1033	Burt St. sewer, Cedar to South End		
813	Burton St. sewer, Clark to Bailey.....		
852	Burton St. paving, Clark to Lorain.....	32,000 00	
	Broadway branch sewer, at Forman and Baxter.....		
	Broadway branch sewer, Union to Miles.....		
1342	Calumet St. sewer, Payne to E. Chestnut.....		
946	Canal St. sewer, Seneca to Michigan		
815	Carr St. sewer, Woodland to Platt.....		
1518	Carran St. sewer, Bolton to Oakdale.....	1,200 00	
261	Case Ave. paving, Payne to L. S. & M. S.....		
776	Case Ave. paving, Garden to Woodland.....	17,000 00	
1546	Catawba St. sewer, Croton to S. End.....		
379	Cedar Ave. sewer, E. Madison to Doan.....		
816	Cedar Ave. paving, E. Madison to Fairmount.....	12,000 00	
909	Central Ave. paving, Erie to Brownell.....	10,000 00	
1507	Central Ave. sewer, Lincoln to Alanson.....	600 00	
1170	Central Ave. paving, Willson to C. & P. R. R.	16,000 00	
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance Credit January 1, 1894.	Disbursements for the year 1893.	Receipts for the year 1892.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$ 11 94	78 59	66 65		
4 51	1,132 93	1,128 42		
4 56	10,335 46	10,891 40		\$ 560 50
52	52			
25 41	25 41			
24	24			
596 56	94,904 51	118,900 93		24,592 98
1 00	250 15	927 15		678 00
561 69	1,010 49	448 80		
600 33	771 72	583 83		412 44
205 16	3,263 94	3,072 81		14 08
3,509 30	17,384 55	16,702 04		2,826 79
	22,161 91	46,906 36		24,744 45
	526 55	526 55		
	3,316 40	3,316 40		
	823 96	1,490 00		666 04
13 58	226 82	212 24		
581 90	594 94	13 04		
	1,837 71	2,042 97		295 26
22 11	413 75	391 64		
5,074 21	9,150 00	8,330 42		4,254 63
196 70	448 58	266 88		5 00
944 66	1,022 70	78 04		
4,065 84	6,905 00	9,865 40		7,026 24
2,165 25	3,705 00	4,164 78		2,625 03
	2,192 44	2,709 76		517 32
	3,786 74	20,959 06		17,172 32

TABLE NO. 4.—*Continued.*

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
1087	Chadwick St. grading, Kinsman to Holton.....		
1086	Champa St. sewer, Broadway to Colorado.....		
1470	Champlain St. repaving, Canal to Ontario.....	10,000 00	
1550	Champlain St. sewer, Ontario to Seneca.....		
1174	Chatham St. sewer, Jersey to Penn.....		
1243	Chatham St. sewer, Ward to Jersey.....	180 00	
1351	Chestnut St. sewer, Erie to Muirson.....	668 00	
566	{ Clark Ave. damages, Scranton to E. line of lot 141, C. } { M. & H.....		
722	Clark Ave. paving, Pearl to C. C. C. & St. L. R. R.....	22,000 00	
794	Clark Ave. sewer, Walworth to Ridge.....		
1493	Clifton St. sewer, Payne to Superior.....	2,000 00	
1478	Clifton St. sewer, Superior to St. Clair.....	1,400 00	
1430	Clinton St. paving, Hanover to Liberty.....	14,000 00	
1492	Clinton St. sewer, State to Hanover.....	200 00	
1242	Claremont St. sewer, Wade Park Ave., North.....		
638	Cobleigh St. grading, Willson to East End.....		
1540	Congress St. sewer, Woodland to 159 feet north.....	800 00	
1052	Cook St. sewer, Benton to Harbor.....		
818	Cornell St. paving, Euclid to Catawba.....	4,000 00	
702	Courtland St. grading, Franklin to Bridge.....		
1139	Crawford St. sewer, Wade Park to Harkness.....		
1278	Cross St. sewer, Hill to Berg.....	325 00	
1512	Cross St. paving, Broadway to Berg.....	4,000 00	
1545	Cross St. sewer, Hill to Broadway.....	350 00	
1547	Cumberland St. grading, Bolton to Oakdale.....		
963	Court Alley repaving.....		
1332	Crawford Place sewer.....		
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
257 54	436 12	178 58		
209 70	940 12	730 42		
	18,207 20	24,245 91		6,038 71
	3,133 06	3,216 75		83 69
69 58	491 78	422 20		
	253 80	360 25		106 45
	3,922 06	3,925 33		3 27
820 76	823 85	3 09		
6,340 87	11,550 78	11,861 97		6,643 08
34 29	34 29			
	2,437 11	3,034 46		597 35
	1,707 96	2,171 51		463 55
	15,780 91	21,356 23		5,575 32
	332 00	426 23		94 23
311 00	311 00			
141 42	152 14	10 72		
	1,662 45	2,020 25		357 80
238 53	1,094 64	856 11		
2,777 34	2,328 57	1,274 98		1,723 75
193 13	220 49	27 36		
749 03	871 33	122 30		
	402 93	596 70		193 77
	3,048 12	6,430 00		3,381 88
	773 48	868 50		95 02
	352 85	352 85		
		380 68		390 68
	71 75	750 00		678 25

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
1476	Danford curbing, Superior to Payne.....		
907	Dare St. sewer, Detroit to Franklin.....		
738	Dart St. grading, Wason to Case.....		
1557	Davenport sewer, 250 ft. S. of Clinton Park to Briggs.....		
170	Davies St. paving, Broadway to N. Y. P. & O. R. R.....		
1120	Decatur Alley paving, Cross to 852 feet east.....	750 00	
886	Decatur Alley paving, Perry to Irving.....	1,560 00	
1428	Decatur Alley paving, Central to Cross.....	2,400 00	
1167	Delaware St. sewer, Superior to Payne.....		
1481	Detroit St. sewer, Center to Kentucky.....	2,600 00	
323	Doan St. grading, Euclid to Ansel.....		
1122	Dodge St. paving, Lake to Euclid.....	10,000 00	
1484	Dodge St. sewer, Chestnut to Euclid.....	400 00	
937	Dolloff St. sewer, McBride to South End.....		
1061	Douse St. sewer, Broadway to 550 feet north.....	4,800 00	
1456	Dunham Ave. paving, Hough to Euclid.....		
	Davis and Bazetta Sts. sewers.....		
624	Detroit Street repaving, Kentucky to Waverly.....		
268	East Madison Ave. sewer, Euclid to Woodland.....		
1778	Euclid Ave. paving, Brownell to Perry.....		
1730	East Prospect St. sewer, Lincoln to Bolton.....		
1068	East Madison Ave. paving, Euclid to Cedar.....	9,000 00	
1084	East Madison Ave. sewer, Woodland to Holton.....		
1115	East Madison Ave. grading, St. Clair to Lowell.....		
1436	East Prospect St. paving, Willson to Bolton.....	81 000 00	
1515	East Prospect St. sewer, E. Madison to Giddings Brook.....	600 00	
1060	East Prospect St. sewer, East Madison to Lincoln.....		
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
959 89	1,771 86	811 97		
76 64	76 64			
173 88	173 88			
		1,227 36		1,227 36
100 06	343 51	243 45		
445 51	930 05	1,389 16		904 62
441 77	968 45	653 07		126 39
	2,918 01	3,960 89		1,042 88
1,445 88	2,313 20	867 32		
	33,986 24	36,485 48		2,499 24
369 16	581 23	212 07		
10,047 18	8,966 98	4,025 63		5,106 83
498 46	813 72	490 87		175 61
5,028 48	5,384 17	400 00		44 31
225 50	1,013 90	788 40		
	5,770 45	8,302 00		2,531 55
350 00	350 00			
766 81	766 81			
	150 00	150 00		
		120 69		120 69
	3,635 89	4,170 00		534 11
5,394 93	4,933 85	3,443 77		3,904 85
3,993 80	7,506 83	8,513 03		
292 72	1,904 75	1,612 03		
	103,600 95	106,780 66		3,179 71
	1,258 84	1,473 68		214 84
1,077 83	1,147 00	69 17		

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
1498	East River repaving, Front to St. Clair.....	16,000 00	
928	Edwards St. sewer, Quincy to Platt.....		
1084	Ellsworth St. sewer, Woodland to Evarts.....	760 00	
1305	Ellsworth St. Sewer, Evarts to C. & P.....		
14	Euclid Ave. repaving, Fairmount to city limits.....		
479	Euclid Ave. repaving, Erie to Perry.....		
1307	Everett Pl. sewer, East Madison to 400 feet east.....		
1552	Forest St. sewer, Kingsbury Run to Broadway.....	3,000 00	
725	Forest St. curbing, Cedar to Central.....		
802	Forest St. paving, Garden to Croton.....	15,000 00	
1548	Forman St. sewer, Ledyard to Tod.....	2,600 00	
1284	Fourth Ave. paving, Willson to Second.....	8,000 00	
880	Frankfort St. repairing, Seneca to Mon. square.....		
1526	Gallup St. sewer, Broadway to N. End.....	1,200 00	
527	Garden St. repaving, Brownell to Willson.....		
975	Garretson St. grading, Rawlins to Kinsman.....		
1160	Gauge St. sewer, Clark to Storer.....		
974	Gaylord St. grading, Woodland Hills to city limits.....		
597	Genesee Ave. sewer, Wade Park to Hough.....		
760	Genesee Ave. sewer, Wade Park to 100 ft. N. of Decker.....		
1434	Genesee Ave. paving, Wade Park to Hough.....	12,000 00	
536	Giddings Ave. sewer, Lexington to Euclid.....		
851	Giddings Ave. sewer, Cedar to Garden.....		
1119	Giddings Ave. grading, Beecher to Superior.....		
612	Gilbert St. grading, Clark to Storer.....		
820	Gordon Ave. sewer, Clark to Lorain.....		
215	Grand Ave. opening and grading.....		
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
	27,940 02	36,312 82		8,372 80
520 01	547 06	27 04		
4 61	843 68	843 08		4 01
49 70	49 70			
248 44	248 44			
1,073 05		84 98		1,158 08
36 38	37 68	1 30		
	18,747 91	20,096 11		1,347 20
189 92	209 68	19 76		
5,089 39	8,025 00	8,127 36		5,141 75
	2,507 33	4,039 53		1,532 20
	7,217 94	10,355 43		3,137 49
		1,454 08		1,454 08
	2,406 63	2,904 31		498 68
223 60	761 84	538 24		
367 76	676 40	308 64		
3,122 07	7,647 37	4,525 30		
2,474 30	5,236 64	2,944 02		181 68
3,886 15	4,008 13	116 98		
55 36	525 00	471 81		2 17
	7,753 33	14,794 57		7,041 24
115 80	147 78	31 98		
998 67	1,077 71	79 04		
509 82	726 23	216 41		
74 36	93 35	18 99		
869 49	885 29	15 80		
103 36				103 36

DEPARTMENT OF ACCOUNTS.

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>.....	\$.....	.....
708	Granger St. paving, Prospect to Garden.....	\$.....	.....
1322	Genesee Ave. sewer.....		
844	Haddock St. grading, Upton to Woodland Hills.....		
1051	Haff St. sewer, St. Clair to Kindsvater.....		
421	Halsey St. sewer, Cedar to South End.....		
1081	Halsey St. grading, Cedar to South End.....		
1048	Hamilton St. sewer, Marquette to Case.....		
1240	Hamilton St. paving, Ontario to Wood.....	3,200 00	
1464	Hamilton St. grade and curb, Case to Marquette.....		
1274	Hancock St. sewer, Jersey to Penn.....	300 00	
504	Harbor St. sewer, Ravine to Lorain.....		
756	Harbor St. sewer, Bridge to Lorain.....		
560	Harkness St. sewer, Hough to Euclid.....		
1420	Harkness St. paving, Hough to Euclid.....	13,000 00	
1080	Harvard St. grading, Woodland Hills to city limits.....		
	Hathaway St. sewer, Doan to Hosley.....		
1448	Hayward St. curbing, Cedar to Central.....		
	Hartzell Ct. sewer.....		
217	Herald St. grading, Kinsman to Woodland, (new acc't.).....		
1161	Hickox St. sewer, Euclid to Prospect.....		
757	Hicks St. sewer, Bridge to Lorain.....		
1544	High St. sewer, Ontario to Miami alley.....		
1594	Hilburn St. paving.....		
1418	Hill St. paving, Commercial to Cross.....	4,000 00	
1088	Holmden Ave. sewer, Jennings to 650 feet east.....		
1586	Holton St. sewer, East Madison to Woodland Hills.....	8,600 00	
1555	Holyoke Pl. grading, Sawtell to West End.....		
	<i>Forward</i>	\$.....	

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$ 942 48	\$ 2,738 64	\$ 1,796 16		\$
	490 00	490 00		
609 33	2,036 58	1,367 25		
144 43	628 00	483 57		
14 00	101 91	87 91		
	60 30	60 30		
3 63	6,442 48	6,438 85		
	80 00	4,481 82		4,401 82
	5,907 81	5,975 47		67 66
	572 10	630 17		58 07
32 10	115 11	83 01		
65 89	65 89			
708 51	708 51			
	11,048 17	16,978 59		5,930 42
81 23	1,878 30	1,797 07		
230 00	230 00			
	1,689 07	1,689 07		
285 00	285 00			
2,481 22	2,481 22			
4,902 55	4,996 25	93 70		
116 83	197 93	81 10		
	6,676 70	6 703 97		27 27
		47 55		47 55
	6,135 05	7,780 75		1,645 70
148 39	709 75	561 34		
	14,941 49	33,060 73		18,119 24
	1,284 04	1,284 04		

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>.....	\$.....	.....
1426	Homewood Ave. grade, &c., Union to Morgan.....	5,000 00	.....
1162	Holyoke Pl. sewer, Sawtell to West End.....		.....
1482	Hough Ave. sewer, Dunham to S. & A. Allot.....	600 00	.....
313	Howlett St. grading, Gauge to Burton.....		.....
1060	Hoyt St. sewer, St. Clair to L. S. & M. S. Ry.....	2,000 00	.....
822	Huntington St. paving, Euclid to Prospect.....	2,000 00	.....
1444	Humboldt St. paving, Orange to 313 ft. S. of Croton.....	6,000 00	.....
1528	Huntington St. paving, Prospect to Central.....	3,200 00	.....
1534	Huntington St paving, Superior to Euclid.....	7,200 00	.....
710	Huron St. paving, Sheriff to Erie.....	6,000 00	.....
1128	Huron St. paving, Prospect to Euclid.....	7,000 00	.....
1096	Huron St. sewer, Erie to Euclid.....		.....
239	Huron St. paving, Ontario to Sheriff.....		.....
1682	High St. paving, Ontario to Sheriff.....		.....
1330	Homestead St. sewer.....		.....
1277	Irving St. sewer, Orange to Pittsburgh.....		.....
1800	Indianola St. sewer.....		.....
1543	Jefferson St. sewer, Professor to University.....	400 00	.....
616	Jennings Ave. paving, Abbey to Brainard.....		.....
143	Kennard St. paving, Prospect to Garden.....		.....
1124	Kennard St. paving, Central to Scovill.....	11,000 00	.....
1130	Kennard St. paving, Scovill to Woodland.....	3,600 00	.....
1517	Kennedy St. sewer, Bolton to Oakdale.....	600 00	.....
1279	Keys St. sewer, East Madison to Edwards.....	800 00	.....
1559	Kindsvater St. sewer, Willson to Lyon.....	1,200 00	.....
	<i>Forward</i>.....		.....

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$ 5,013 01	\$ 5,204 69	.....	\$ 191 68
322 37	513 84	191 47	.....	.....
.....	1,736 11	1,911 61	.....	175 50
1 56	83 26	81 70	.....	.....
907 58	2,796 14	2,061 32	.....	172 76
930 53	1,150 00	766 49	.....	547 02
.....	7,237 09	9,513 42	.....	2,276 33
.....	4,399 21	5,398 30	.....	969 09
.....	8,072 26	10,287 28	.....	2,215 02
555 25	2,712 68	2,568 75	.....	411 32
3,429 62	3,536 04	3,143 05	.....	3,036 63
.....	1,238 45	1,238 45	.....	.....
250 42	250 42	.....	.....	.....
.....	4,251 06	5,152 30	.....	901 24
.....	56 00	75 00	.....	19 00
.....	637 43	637 43	.....	.....
.....	28 00	75 00	.....	47 00
.....	589 17	689 15	.....	99 98
956 79	1,186 65	229 86	.....	.....
.....	196 97	.....	.....	.....
4,299 29	3,803 41	4,204 70	.....	4,700 58
1,440 18	2,167 36	1,982 98	.....	1,255 80
.....	1,264 68	1,418 62	.....	153 94
.....	1,431 12	1,548 76	.....	117 64
.....	1,762 78	1,809 88	.....	47 70

TABLE NO. 4.—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>		
220	Kinsman St. paving, Willson to city limits.....	\$	
957	Kinsman St. sewer, Kingsbury run to city limits.....		
1074	Kinsman St. paving, Willson to Woodland Hills.....	50,000 00	
.....	Kinsman St. branch sewers.....		
391	Kirtland St. sewer, Lake to Lake Erie.....		
1553	Kirtland St. curbing, Superior to Payne		
1037	Laurel St. grading, Central to Scovill.....		
.....	Lawnview Ave. sewer, Giddings to E. Madison.....		
1537	Lawn St sewer, Gordon to Ridge.....	2,000 00	
901	Lena Ave. curbing, Willson to Norwood.....		
1541	Lester St. sewer, Gallup to E. End.....	1,400 00	
1134	Lexington Ave. sewer, Giddings to E. Madison.....		
730	Liberty St. grading, Bridge to Lorain.....		
1414	Liberty St. paving, Detroit to Franklin.....	2,400 00	
1522	Liberty St. sewer Detroit to Franklin.....	300 00	
1542	Light St. sewer, St. Clair to Varian	1,160 00	
947	Lincoln Ave. sewer, Quincy to Woodland.....		
838	Lincoln Ave. paving, Euclid to Cedar.	3,000 00	
741	Linden St. curbing, Garden to Scovill.....		
1273	Literary St. sewer, Professor to University.....	400 00	
1480	Literary St. sewer, University to Herschel.....	900 00	
1299	Lindus St. sewer, Wade Park Ave. north.....		
1040	Little St. grading, Auburn to Starkweather.....		
1416	Livingston Ave. paving, Cedar to Central.....	3,200 00	
924	Logan Ave. grading, Cedar to Quebec.....		
1246	Logan Ave. paving, Euclid to Cedar.....	4,400 00	
1198	Logan Ave. paving, Lamont to Euclid.....	4,800 00	
	<i>Forward</i>		

TABLE NO. 4.—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$ 567 32	\$ 567 32	\$.....		\$.....
3,039 18	2,124 83	1,301 71		2,216 06
	69,931 35	91,868 08		21,936 73
03	149 20	149 17		
202 40	202 40			
	2,805 56	2,805 56		
120 98				120 98
332 00	332 00			
	4,092 40	4,124 86		32 46
43 53		59		44 12
	2,165 07	2,491 97		326 90
1,121 80	1,453 77	331 97		
106 32		3 02		109 34
	3,281 00	3,398 36		117 36
	541 22	707 06		165 84
	1,831 13	2,024 37		193 24
776 70	2,079 22	1,302 52		
1,223 28	1,200 00	1,565 42		1,538 70
73 22	92 33	19 11		
	1,155 27	1,215 90		60 63
	2,655 71	2,751 11		95 40
361 00	361 00			
184 29	23 15			161 14
	3,518 88	4,491 13		972 25
192 86				192 86
	4,402 60	6,499 12		2,096 52
	3,420 11	6,932 05		3,511 94

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>		
714	Lorain St. paving, Ridge to Geib.....	\$ 6,000 00	
49	Lorain St. sewer, Geib to 1800 feet E.....		
.....	Lorain St. branch sewers, at Davies and Bazetta.....		
795	Lorain St. sewer, Ursula to Henry.....		
824	Lorain St. paving, Geib to Henry.....	24,000 00	
865	Lorain St. repaving, Pearl to Columbus.....	2,000 00	
1496	Lorain St. sewer, Smith to Bradford.....	600 00	
1497	Luther St. grading, Kirtland to Willson.....		
1514	Lyman St. sewer, Superior to Payne.....	1,600 00	
1523	Lyman St. sewer, Payne to Mason.....	1,000 00	
1062	McHenry St. sewer, St. Clair to Superior.....		
1483	McKinstry St. sewer, Literary to 480 feet north.....	650 00	
762	McLean St. paving, Carroll to Lorain.....	1,050 00	
1526	Magnet St. sewer, Broadway to Willson.....	400 00	
603	Marcy Ave. sewer, Wade Park to Hough.....		
1446	Marcy Ave. curbing, Wade Park to Hough.....		
782	Marion St. curbing, Perry to Greenwood.....		
1156	Marvin Ave. sewer, Brooklyn annexation.....	2,333 32	
1154	Marvin Ave. water main, Brooklyn annexation.....		
1504	Marvin Ave. paving, Pearl to Rhodes.....	14,000 00	
1450	Mason St. curbing, Case to Willson.....		
1440	Mayfield St. paving, Euclid to city limits.....	3,200 00	
.....	Mayfield St. branch sewer.....		
1049	Mayflower St. sewer, Croton to Orange.....		
1412	Miami Alley paving, Huron to Bolivar.....	800 00	
1485	Miami Alley sewer, Huron to Bolivar.....	1,500 00	
1460	Michigan St. repaving, Canal to Ontario.....	10,000 00	
	<i>Forward</i>		

TABLE No. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
1,728 97	3,489 10	2,628 54		869 41
76 80				76 80
10 00	10 00			
218 40	1,903 18	1,684 78		
4,789 50	12,223 60	17,797 10		10,363 00
500 05	1,150 00	1,014 58		964 63
	1,123 68	1,294 64		170 96
	1,253 23	1,452 13		198 90
	3,319 04	3,796 28		477 24
	1,632 91	2,594 30		961 39
711 15	2,231 98	1,520 83		
	841 89	984 09		142 19
429 38	630 00	557 20		356 58
	748 65	897 45		148 80
3,160 98	3,271 53	110 55		
	22 00	1,501 26		1,479 26
76 60		92 37		168 97
	758 34	777 60		19 26
879 64		25 22		904 86
	16,857 47	25,439 03		8,581 56
	3,457 45	3,457 45		
	3,847 50	4,874 77		1,027 27
	225 00	225 00		
111 69	290 47	178 78		
	30 72	1,295 16		1,264 44
	1,182 88	1,914 87		731 99
	18,994 05	24,525 71		5,531 66

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
1588	Michigan St. sewer, Canal to Ontario		
744	Miles Ave., N. Side, grading, Sawyer to Woodland Hills		
1486	Minerva St. sewer, Hough to North End.....	800 00	
1306	Minton St. sewer, Lorain to Dennison		
1525	Montgomery St. sewer, Giddings to Parker	900 00	
966	Monumental Ct. repaving, Superior to E. line of Mon. Sq.		
1244	Myrtle Court sewer, Sawtell to W. End.....	150 00	
589	Newall St. sewer, Mentor to Castle.....		
1410	North Perry St. paving, St. Clair to Superior.....	3,600 00	
858	N. Woodland Ave. sewer, Woodland to Woodl'd Hills..	3,000 00	
955	Noyes St. sewer, Clark to Rowley		
1184	Oakdale St. paving, Euclid to Cedar	4,240 00	
1472	Oak Place paving, Euclid to Prospect.....	2,000 00	
1265	Ocean St. sewer, Woodland to Bushnell.....	650 00	
1438	Orange St. paving, Perry to Humboldt.....	17,000 00	
1468	Orange St. paving, Cross to Perry.....	12,000 00	
1494	Otis St. sewer, Woodland to Dell.....	400 00	
627	Outhwaite St. curbing, Kennard to Willson.....		
1113	Outhwaite St. curbing, Willson to Slater.....		
779	Oliver St. sewer, St. Clair to Superior.....		
1320	Olive St. sewer		
1183	Payne Av. sewer, Muirson to Dodge		
1186	Payne Ave. sewer, North Perry to Sterling.....		
1290	Payne Ave. paving, Muirson to Willson	68,000 00	
	Payne Ave. branch sewers, at Olive St.....		
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
	6,397 05	7,416 76		1,019 71
177 49	210 87	33 38		
	1,263 66	1,350 35		86 69
363 00	355 00			8 00
	1,050 89	1,388 28		337 39
1,580 90	4,248 79	14,079 01		11,411 12
	605 16	872 44		287 28
67 15	67 15			
	92 01	5,825 97		5,733 96
	3,350 74	3,355 17		4 43
61 23	61 23			
849 21	1,934 13	1,612 69		527 77
	50 00	2,923 43		2,873 43
	1,592 63	1,883 57		290 94
	18,674 91	22,363 93		3,689 02
	11,449 53	15,864 36		4,414 83
	1,147 72	1,190 90		43 18
126 18		4 15		130 33
149 15		49 11		198 26
187 32	187 32			
	480 00	480 00		
892 70	892 70			
1,641 10	1,641 10			
	40,251 39	90,020 87		49,768 98
	450 00	450 00		

TABLE NO. 4.—*Continued.*

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
1058	Peach St. sewer, Burton to Harbor.....		
1053	Pear St. sewer, Waverly to Aspen.....	150 00	
1149	Pearl St. paving, Brooklyn Village Annexation.....	3,663 20	
1146	Pearl St. sewer, Brooklyn Village Annexation.....	722 55	
1175	Pearl Ct. sewer, Pearl to East End.....		
1408	Perry St. repaving, Woodland to Broadway.....		
129	Pittsburgh St. repaving, Liberal to Jackson.....	3,600 00	
1501	Platt St. sewer Carr to East Madison.....		
1717	Plymouth St. sewer.....	1,100 00	
1516	Princeton St. sewer, Linwood to Hough	400 00	
458	Professor St. sewer, Pelton to Starkweather.....		
943	Prospect St. sewer, Ontario to Erie.....		
1404	Prospect St. repaving, Ontario to Erie.....	19,000 00	
764	Queen St. sewer, Pearl to W. End.....		
1442	Queen St. curbing, Pearl to W. End		
1080	Quincy St. sewer, E. Madison to Woodland Hills.		
1076	Quincy St. sewer, Judson to East Madison.....		
1072	Ranney St. sewer, St. Clair to Bliss.....	2,100 00	
508	Ravine St. sewer, Harbor to Dare.....		
976	Bedell St. sewer, East Madison to Seedle.....		
.....	Repaving intersections of Eagle and other streets.....		
606	Republic St. sewer.....		
1150	Rhodes and Woodbridge sewer, Brooklyn Vil. Annex'n	325 85	
1152	Rhodes Ave. Water Main, Brooklyn Village Annexation		
1196	Richland Ave. sewer, Central to Quincy.....		
934	Ridge Ave. sewer, Clark to Dennison.....		
	<i>Forward</i>	\$.....	\$.....

TABLE No. 4.—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
475 30	860 60	385 30		
64 53	166 96	272 80		170 47
	2,334 55	2,348 14		13 59
	809 20	818 94		9 74
104 29	420 95	316 66		
	7,970 51	9,917 51		1,947 00
320 33	320 33			
	2,032 79	2,388 01		355 22
	24 50	50 00		25 50
	926 53	1,046 91		120 38
91 51	91 51			
195 63	195 63			
	29,121 59	39,013 47		9,891 88
48 39	59 50	11 11		
	1,305 80	1,373 04		67 24
21,539 70	30,157 53	10,089 77		3,491 94
162 83	1,448 98	1,286 15		
784 58	1,116 86	720 32		388 04
02	29 66	29 64		
769 14	2,532 23	1,763 09		
682 35	874 43	182 08		
	25 01	25 01		
4 12	77 11	81 07		8 08
		5 75		5 75
325 39	1,252 98	927 49		
10,152 67	10,538 14	385 47		
\$.....	\$.....	\$.....	\$.....	\$.....

DEPARTMENT OF ACCOUNTS.

TABLE NO. 4.—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
831	Ridge Ave. sewer, Clark to Lorain.....		
1466	Rockwell St. paving, Wood to Erie.....	\$ 6,000 00	
1530	Rockwell St. repaving, Square to Wood.....	2,200 00	
732	Root St. grading, Franklin to Lorain.....		
509	Root St. sewer, Lorain to Ravine.....		
935	Rowley St. sewer, Jennings to Scranton.....	700 00	
1126	Russell Ave. paving, Lexington to Euclid.....	9,000 00	
1780	Russell Ave. sewer.....	450 00	
1716	Ruth and Mona Sts. sewer.....		
832	Sackett St. grading and cinderling, Pearl to Rhodes.....		
1187	Sackett St. sewer, Pearl to Rhodes.....	1,700 00	
564	Sawtell Ave. paving, Woodland to Julia.....	6,000 00	
1112	Schiller St. grading, Holton to south end.....		
750	Scranton Ave. paving, Paraffine to Clark.....	6,800 00	
1144	Scranton Ave. sewer, Brooklyn Village Annexation.....		
910	Seneca St. repaving, Superior to Canal.....	3,360 00	
1406	Seneca St. paving, St. Clair to Summit.....	6,400 00	
1508	Seneca St. repaving, Stone's Levee (N) to Stone's Levee (S)	11,000 00	
1690	Seneca St. sewer, Superior to Summit.....	4,000 00	
1479	Shepherd St. sewer, Superior to N. of Wade Park.....	1,800 00	
1027	Siam St. sewer, Willett to Mechanic.....		
979	Sibley St. paving, Case to Willson.....	6,000 00	
1553	Smith St. sewer, Broadway to N. End.....	800 00	
1328	Smiley Ave. sewer.....		
1140	Southern St. sewer, Quincy to Woodland.....	1,600 00	
.....	South Genesee paving.....		
1454	{ South Woodland Ave. repaving, 216 ft. E. of Lincoln to } Woodland Hills.....	18,000 00	
	<i>Forward</i>	\$.....	\$.....

TABLE NO. 4.—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1893.
\$.....	\$.....	\$.....	\$.....	\$.....
157 17	175 93	18 76		
	9,303 54	11,103 64		1,800 10
	4,358 44	5,425 96		1,067 52
217 53		1 01		218 54
02	110 70	110 68		
1,114 96	1,418 35	746 65		443 26
3,916 76	2,525 00	3,340 27		4,732 03
	607 79	700 00		92 21
	50 00	50 00		
88 65	6 08	63 72		146 29
262 19	1,885 31	1,890 50		267 38
1,021 99	2,400 00	2,501 63		1,123 62
208 84	297 36	88 52		
5,548 12	6,234 77	4,114 11		3,427 46
32 30	12 72	7 07		26 65
699 37	1,356 35	1,395 18		735 20
	11,308 08	16,669 45		5,361 42
	21,589 20	26,938 02		5,348 82
	19,168 29	25,700 00		6,531 71
646 72	2,258 70	1,748 81		136 83
503 84	1,254 15	750 31		
2,957 03	2,375 00	2,323 98		2,906 01
	1,122 63	1,321 62		198 99
	265 62	265 62		
227 16	1,774 43	1,828 12		280 85
	17 50	17 50		
	37,077 61	37,154 03		76 42
\$.....	\$.....	\$.....	\$.....	\$.....

TABLE NO. 4.—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
	South Woodland branch sewers.....		
1248	Spangler Ave. paving, Euclid to 917 feet north.....	3,600 00	
310	South Bell Ave. grading, Cedar to 1671 feet south.....		
1141	Starkweather Ave. sewer, Scranton to Jennings.....		
1495	Starkweather Ave. sewer, South to Pelton.....	3,400 00	
547	Stark Ave. curbing, Cedar to Fairmount.....		
229	St. Clair St. widening, east of Willson.....		
784	St. Clair St. grading, Becker to Woolsey.....		
734	St. Clair St. sewer, E. Madison to Ansel.....		
1488	St. Clair St. sewer, Erie to Ontario.....		
1490	St. Clair St. sewer, Seneca to Water.....		
1489	St. Clair St. sewer, Seneca to Ontario.....		
1026	Steinway St. sewer, Woodland to Woodland Hills.....		
1164	Sterling Ave. repaving, Prospect to Euclid.....	1,600 00	
1172	Sterling Ave. paving, Prospect to Cedar.....	4,900 00	
884	Streator Ave. paving, Euclid to Cedar.....	4,410 00	
253	Superior St. widening, Willson to city limits.....		
607	Superior St. sewer, E. Madison to Ansel.....		
705	Superior St. sewer, E. Madison to Giddings Brook.....		
1402	Superior St. repaving, Water to Mon. Square.....	18,000 00	
632	Swiss St. sewer, Clark to Train.....		
878	Swiss St. paving, Lorain to Clark.....	16,000 00	
510	Taylor St. sewer, Ravine to Lorain.....		
1329	Tennis St. sewer.....		
1452	Track St. grading, Meade to Sawtell.....		
1188	Track St. grading, Willson to Meade.....		
920	Train St. sewer, Clark to Swiss.....		
	<i>Forward</i>	\$.....	\$.....

TABLE NO. 4.—*Continued.*

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
	1,230 00	1,230 00		
	3,970 91	5,340 71		1,369 80
10 87	10 87			
789 86	789 86			
	5,120 34	5,164 54		44 20
23 55	23 55			
964 96	964 96			
602 63	602 63			
941 83	1,209 57	267 74		
	9,762 84	9,923 36		160 52
	45 50	9,370 51		9,325 01
	2,174 13	3,522 27		1,348 14
559 65	2,579 06	2,019 41		
	3,820 04	4,170 82		350 78
	7,126 77	11,312 37		4,185 60
1,079 24	1,758 91	1,982 73		1,303 06
3,000 00	3,000 00			
541 45	541 45			
78 09	78 09			
	35,014 03	44,750 73		9,736 70
78 53	101 88	23 35		
8,950 64	8,234 18	6,714 40		7,430 86
04	95 61	95 57		
	1,001 40	1,001 40		
	239 59	356 41		116 82
		50 46		50 46
648 76	994 15	345 39		
\$.....	\$.....	\$.....	\$.....	\$.....

DEPARTMENT OF ACCOUNTS.

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
1158	Trowbridge St. sewer, Brooklyn Village Annexation.....		
1584	Trowbridge St. opening.....		
1189	Turn St. grading, Liberty to Taylor.....		
1311	Tustin St. sewer.....		
470	Union St. grading and cinderling, Broadway to Wood. H's.....		
758	Vega Ave. paving, Pearl to Rhodes.....		
1271	Wade Ave. sewer, Rhodes to Pearl.....	3,500 00	
1536	Wade Ave. sewer, Pearl to Scranton.....	350 00	
908	Wade Park Ave. sewer, Marcy to Ansel.....		
1114	Wade Park Ave. curbing, E. Madison to Genesee.....		
1519	Wade Park Ave. grading, Marcy to Crawford.....		
1500	Wade Park Ave. sewer, Giddings to Giddings Brook.....	520 00	
1046	Wadsworth St. sewer, Croton to Orange.....		
1272	Walker St. sewer, Broadway to Sawyer.....		
1245	{ Wallingford Ct. grade and curb, Woodland to 116 ft. } S. of Burwell.....		
1190	Walnut St. curbing, Muirson to Dodge.....		
1654	Walton St. sewer, Pearl to Pollock.....	3,200 00	
498	Walworth St. opening, Scranton to Gordon.....	70,000 00	
1539	Waring St. sewer, Superior to Payne.....	1,400 00	
1191	Warren St. sewer, Forest to Martin.....		
836	Washington St. sewer, Pearl to State.....		
1077	Wheatland St. culvert, Union to Salem.....		
1192	Wheller Place paving, Eagle to Central.....	1,200 00	
848	Wigwam Lane paving, Erie to Wheller Place.....		
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.	\$.	\$.	\$.	\$.
1-42		22 58		24 00
	5,000 00	5,000 00		
59 82				59 82
28 87	70 87	50 00		8 00
				"
146 11		26 14		172 25
		.		
1,437 67	3,650 63	2,212 96		
	7,087 07	7,118 90		31 83
	929 09	1,043 20		114 11
3,079 73	5,451 23	2,371 50		
363 30	484 95	121 65		
	2,376 09	2,428 78		52 69
	1,265 47	1,790 60		525 13
114 00	523 04	409 04		
297 27	168 21	999 73		1,128 79
	1,490 70	1,490 70		
1,432 60		158 89		1,591 49
6,256 26	9,196 04	3,519 90		580 12
	6,645 59	7,000 00		354 41
	1,932 20	2,350 66		418 16
823 43	3,244 16	2,420 73		
263 67	328 03	64 36		
549 26	1,003 38	1,003 85		549 83
	1,083 00	1,766 95		673 95
401 84	961 70	559 86		

TABLE NO. 4—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$.....	\$.....
1312	Wilbur Ct. sewer.....		
237	Willson Ave. damages, Sawtell to Broadway.....		
234	Willson Ave. grading, Sawtell to Maurice.....		
570	Willson Ave. paving, St. Clair to Euclid.....	38,000	
768	Willson Ave. paving, Woodland to Julia.....	10,400	
1458	Wood St. repaving, St. Clair to Superior.....	3,800	
1292	Woodland Ave. repaving, E. Madison to E. of Lincoln.....	5,200	
1331	Woodridge branch sewer.....		
1275	Zoeter St. sewer, Dunham to Giddings.....	1,620 00	
	Commercial St. Sewer District.....		
	Sewer District No. 1.....		
	Sewer District No. 2.....	5,000 00	
	Sewer District No. 3.....	40,000 00	
	Sewer District No. 4.....	20,000 00	
	Sewer District No. 5.....	23,000 00	
	Sewer District No. 6.....		
	Sewer District No. 7.....	67,000 00	
	Sewer District No. 8.....		
	Sewer District No. 9.....		
	Sewer District No. 10.....	12,000 00	
	Sewer District No. 11.....		
	Sewer District No. 12.....		
	Sewer District No. 14.....	16,000 00	
	Sewer District No. 15.....	340,000 00	
	Sewer District No. 16.....	38,000 00	
	Sewer District No. 17.....	20,000 00	
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....
275 50	275 50			
99 10	99 10			
4,254 96	4,254 96			
96 78	21,625 00	26,408 41		4,880 19
3,815 35	4,650 00	4,766 02		3,931 37
	8,069 92	9,625 71		1,455 79
	13,409 77	13,570 92		161 15
	530 00	530 00		
	5,051 41	5,073 82		22 41
357 30	355 25			2 05
211 40	1,814 33	3,359 40		1,756 47
1,994 22	3,727 48	6,401 37		4,668 11
821 81	52,834 77	52,113 22		100 26
21,132 98	22,933 56	2,337 45		536 88
15,747 27	13,647 39	910 41		3,010 29
1,338 35	200 57			1,137 78
7,191 22	26,622 14	35,153 70		15,722 78
977 94	616 33	32 30		393 91
6,101 59	6,551 63	578 89		128 85
2,073 86	5,555 06	3,892 88		401 68
5,950 03	5,847 80	813 60		915 83
323 23	1,061 67	1,255 65		517 21
3,727 60	3,667 49	7,764 55		7,834 66
280 42	49,579 11	60,677 32		11,378 63
2 91	26,045 27	29,392 14		3,349 78
2,082 09	20,290 59	19,243 05		1,034 55

TABLE NO. 4—Continued.

General Record.	FUND	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$	\$
	Sewer district No. 18.....	\$ 38,000 00	
	Sewer district No. 19.....		
	Erie St. R. R. paving rebate.....		
	Bridge repair.....	455,000 00	
	Funded debt.....	1,696,000 00	
	Canal fund.....	275,000 00	
1092	Art gallery.....		
	Bridge.....		
	Bridge repair.....		
	Cemetery.....		
	City Farm school.....	14,000 00	
	City Hall fund.....		
	Curbing fund.....		
	Dredging.....		
	Elevated roadway.....	892,000 00	
968	Ethan Alling Trust.....		
	Fire department.....	337,000 00	
	Garbage.....		
	Gas inspection.....		
	General.....	25,000 00	
	Hospital.....		
	House of Correction.....	20,000 00	
	Infirmary.....		
	Interest.....		
	Kingsbury bridge.....	245,000 00	
	Lighting.....		
	<i>Forward</i>		

TABLE NO. 4—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$ 5,533 38	\$ 8,313 32	4,773 21		\$ 1,933 27
	60 00	75 00		15 00
	2,493 40	2,493 40		
5,000 00				5,000 00
8,009 38	102,994 27	388,262 80		293,277 91
78,232 50	78,232 50			
34,326 99	27,495 43	36,615 82		43,447 38
345 67		1,750 26		2,095 93
		42,113 00		42,113 00
	266 36	346 92		80 56
394 50	24,758 12	25,341 75		978 13
3,946 89				3,946 89
	51 00	.51 00		
24,301 00	369,711 22	593,410 46		243,000 24
2,786 49	2,786 49			
8 50		11 50		20 00
26,390 54	320,590 05	320,959 17		26,749 66
25 87	25 87			
12,406 03	111,538 07	105,014 84		5,882 80
14,019 18	139,991 95	129,853 67		3,880 90
2,794 22	345,237 00	423,760 21		86,317 43
189 77	2,502 40	2,525 95		213 32
44,563 33	199,723 45	174,660 21		19,530 09

DEPARTMENT OF ACCOUNTS.

TABLE NO. 4.—*Continued.*

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$	\$
	Market		
	New Central Police Station.....	100,000 00	
	Night Soil, new account.....		
	Night Soil, old account.....		
	Park		
	Paving.....		
	Pearl St. Bridge.....	55,000 00	
	Petrie St. Bridge.....	5,000 00	
	Police Court.....		
	Police Court special.....		
	Police Department.....	20,000 00	
	Sanitary.....		
	Sidewalk.....		
	Sinking Fund for General Bonds.....		
	Street Department.....		
	Street Intersections.....		
	Suspense Account.....		86,536 48
	Tax Abatement.....		
	Tax Refunding, old account.....		
	Tax Refunding, new account.....		
	Unclaimed money.....		
	Undistributed Dow Tax.....		
	Undistributed general tax.....		
	Viaduct bonds	1,990,000 00	
	Viaduct and Canal Sinking Fund.....		
	Water Works.....	1,775,000 00	
	Willow St. Bridge.....		
	Warrants outstanding.....		
	<i>Forward</i>	\$	\$

TABLE NO. 4.—Continued.

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
7,340 98	64,112 76	58,635 18		1,963 40
100,000 00	100,000 00			
2,241 71	33,590 33	31,502 72		154 10
18 57	18 57			
2,834 23	36,374 87	36,858 43		3,317 79
62,603 81	181,713 95	119,644 61		534 47
4,183 26				4,183 26
1,121 64	23,676 94	22,938 35		383 05
	5,276 00	5,276 00		
9,807 49	361,459 27	452,201 21		100,549 43
2,815 68	36,111 99	37,068 06		3,771 75
9,518 23	9,175 30	5,866 51		6,209 44
1,169 21	228,500 00	239,855 41		12,524 62
7,176 18	139,533 56	136,817 74		4,460 36
85,127 42	68,683 05	60,635 57		77,079 94
	501,567 02	588,103 50		
520 89	762 42	2,325 58		2,084 05
58 63	221 67	601 10		438 06
22,975 69	28,947 41	24,888 64		18,916 92
2,015 50	14,874 06	15,053 69		2,195 13
100,000 00	166,927 19	141,927 19		75,000 00
100,000 00	1,902,862 70	1,927,502 70		124,700 00
4,646 24	304,500 00	319 536 80		19,683 04
282,642 34	802,296 03	794,488 03		244,924 34
6 28				6 28
32,112 13				
\$.....	\$.....	\$.....	\$.....	\$.....

TABLE NO. 4.—Continued.

General Record.	FUND.	Amount of Bonds and Notes outstanding January 1, 1894.	Balance Debit January 1, 1893.
	<i>Forward</i>	\$	\$
	Sinking Fund Commissioners, Dr.....		965,647 80
	To Viaduct and Canal Sinking Fund.....		
	\$2,054,342 98		
	39,249 57		
	City Treasurer, Dr..... \$2,015,093 41		1,308,562 65
	Totals	\$9,625,867 92	\$2,360,746 93

TABLE NO. 4.—*Continued.*

Balance Credit January 1, 1893.	Disbursements for the year 1893.	Receipts for the year 1893.	Amounts over- drawn January 1, 1894.	Cash on hand January 1, 1894.
\$.....	\$.....	\$.....	\$.....	\$.....
965,647 80				
			\$ 2,015,083 41	
\$ 2,360,746 93	\$ 8,436,253 38	\$ 9,174,896 27	\$ 2,015,083 41	\$ 2,015,083 41

TABLE NO. 4.--Continued.

RECAPITULATION No. 1.

Total credit balances January 1, 1893.....		\$ 2,360,746 93
Less balance debit, suspense account	\$ 86,536 48	
Less Viaduct and Canal Sinking Fund, Jan. 1, 1893.....	965,647 80	
Less warrants outstanding January 1, 1893.....	32,112 13	1,084,296 41
Cash balance January 1, 1893.....		1,276,450 52
Receipts during the year 1893.....		9,174,896 27
		\$ 10,451,346 79
Disbursements during the year 1893.....		8,436,253 36
Cash balance January 1, 1894.....		\$ 2,015,093 41
Report of Euclid Avenue National Bank.....		\$ 2,111,890 15
Floating checks.....		66,997 93
Depository balance.....		2,044,892 22
Cash in treasury—Account of tax certificates.....		7,450 76
Account of Sec. 11 Depository law.....		2,000 00
City treasury balance.....		2,054,342 98
Floating warrants.....		39,249 57
Cash balance January 1, 1894.....		\$ 2,015,093 41

TABLE NO. 4.—Continued.

RECAPITULATION No. 2.

Total disbursements as shown by Table No. 4		\$ 8,436,253 38
Included in the above are the following transfers, viz:		
From Bridge Repair to Bridge Fund.....	\$ 35,109 45	
From Garbage Fund to Sanitary Fund.....	1,877 95	
From New Central Police Station to Police Fund.....	100,000 00	
From Hospital Fund to Sanitary Fund.....	25 87	
From Market Fund to General Fund.....	10,170 00	
From Market Fund to Street Fund.....	19,754 00	
From General Fund to Market Fund.....	10,000 00	
From Market Fund to House of Correction Fund.....	10,000 00	
{ From Street Improvement Funds to General Fund		
acc. of printing.....	6,929 51	
{ From Undistributed Tax and various Transfers		
Fund No. 14.....	3,066,440 48	
Transfers in Claims Ordinances.....	7,703 00	3,268,010 26
Actual disbursements during 1893.....		\$ 5,168,243 12

TABLE No. 4.—*Continued.*

RECAPITULATION No. 3.

SHOWING THE AMOUNT OF THE GENERAL, AND
SPECIAL INDEBTEDNESS OF THE CITY OF
CLEVELAND, JANUARY 1, 1894.

Amount of General bonded debt.....		\$ 6,129,000 00
Amount of Special bonded debt.....		
Street damage.....	\$ 70,000 00	
Street improvements.....	805,000 00	
Sewer districts.....	619,000 00	
Water Works.....	1,775,000 00	3,269,000 00
Total bonded indebtedness.....		\$ 9,398,000 00
TEMPORARY LOANS FOR SPECIAL IMPROVEMENTS.		
Note No. 365—Woodland Avenue, sewer.....	G. R. 858	\$1,500 00
" 366— " ".....	858	1,500 00
" 377—McLean Street, paving.....	762	275 00
" 378— " ".....	762	275 00
" 379— " ".....	762	250 00
" 380— " ".....	762	250 00
" 490—Pear Street, sewer.....	1053	75 00
" 491— " ".....	1053	75 00
" 496—Seneca Street, repaving.....	910	560 00
" 497— " ".....	910	560 00
" 498— " ".....	910	560 00
" 499— " ".....	910	560 00
" 500— " ".....	910	560 00
" 501— " ".....	910	560 00
" 505—Decatur Alley, paving.....	896	260 00
" 506— " ".....	896	260 00
" 507— " ".....	896	260 00
<i>Forward</i>		

TABLE NO. 4.—Continued.

RECAPITULATION No. 3.—Continued.

<i>Forward</i>		
	G. B.	
Note No, 508—Decatur Alley, paving.....	886	260 00
“ 509— “ “	886	260 00
“ 510— “ “	886	260 00
“ 514—Andes Alley, “	881	335 00
“ 515— “ “	881	335 00
“ 516— “ “	881	335 00
“ 517— “ “	881	335 00
“ 518— “ “	881	335 00
“ 519— “ “	881	335 00
“ 523—Decatur Alley, “	1120	375 00
“ 524— “ “	1120	375 00
“ 544—Ellsworth Street, sewer.....	1064	380 00
“ 545— “ “	1064	380 00
“ 550—Sackett Street, sewer.....	1187	850 00
“ 551— “ “	1187	850 00
“ 556—Southern Avenue, sewer.....	1140	800 00
“ 557— “ “	1140	800 00
“ 571—Kennard Street, paving.....	1130	600 00
“ 572— “ “	1130	600 00
“ 573— “ “	1130	600 00
“ 574— “ “	1130	600 00
“ 575— “ “	1130	600 00
“ 576— “ “	1130	600 00
“ 580—Streator Avenue, paving.....	884	735 00
“ 581— “ “	884	735 00
“ 582— “ “	884	735 00
“ 583— “ “	884	735 00
“ 584— “ “	884	735 00
“ 585— “ “	884	735 00
“ 596—Hoyt Street, sewer.....	1050	1,000 00
“ 897— “ “	1050	1,000 00
<i>Forward</i>	\$.....	

TABLE NO. 4.—Continued.

RECAPITULATION NO. 3.—Continued.

<i>Forward</i>			
Note No. 61C—Asylum Street, sewer.....	G. R. 1055	\$	430 00
" 611— " "	1055		430 00
" 627—Belden Street sewer ..	1059		300 00
" 628— " "	1059		390 00
" 629— " "	1059		300 00
" 630— " "	1059		300 00
" 636—Ranney Avenue, sewer.....	1072		350 00
" 637— " "	1072		350 00
" 638— " "	1072		350 00
" 639— " "	1072		350 00
" 640— " "	1072		350 00
" 641— " "	1072		350 00
" 648—Scranton Avenue, paving.....	750		1,700 00
" 649— " "	750		1,700 00
" 650— " "	750		1,700 00
" 651— " "	750		1,700 00
" 656—Oakdale Street, paving.....	1184		530 00
" 657— " "	1184		530 00
" 658— " "	1184		530 00
" 659— " "	1184		530 00
" 660— " "	1184		530 00
" 661— " "	1184		530 00
" 662— " "	1184		530 00
" 663— " "	1184		530 00
" 668—Walton Avenue, sewer.....	1054		1,600 00
" 669— " "	1054		1,600 00
" 676—Buhner Avenue, sewer.....	1091		250 00
" 677— " "	1091		250 00
" 678— " "	1091		250 00
" 679— " "	1091		250 00
" 691—Rowley Street, sewer.....	935		350 00
<i>Forward</i>		\$	\$

TABLE NO. 4.—Continued.

RECAPITULATION NO. 3.—Continued.

<i>Forcard</i>	G. R.	\$.....	\$.....
Note No. 692—Rowley Street, sewer.....	985	350 00	
“ 695—Shipherd Street, sewer.....	1479	600 00	
“ 696— “ “	1479	600 00	
“ 697— “ “	1479	600 00	
“ 700—Dodge Street, sewer.....	1484	200 00	
“ 701— “ “	1484	200 00	
“ 705—E. Prospect Street, sewer.....	1515	150 00	
“ 705—Detroit Street, sewer.....	1481	1,300 00	
“ 705—Cross Street, sewer.....	1278	150 00	
“ 705—Wade Avenue, sewer.....	1536	175 00	
“ 705—Ocean Street, sewer.....	1265	325 00	
“ 705—Jefferson Street, sewer.....	1543	100 00	
“ 705—Otis Street, sewer.....	1494	200 00	
“ 705—Myrtle Street, sewer.....	1244	75 00	
“ 705—Hancock Street, sewer.....	1274	150 00	
“ 705—Princeton Street, sewer	1516	200 00	
“ 705—Minerva Street, sewer.....	1486	200 00	
“ 705—Gallup Street, sewer.....	1526	600 00	
“ 705—Lester Street, sewer.....	1541	350 00	
“ 705—Literary Street, sewer.....	1480	225 00	
“ 705—Hough Street, sewer.....	1482	300 00	
“ 705—Platt Street, sewer.....	1501	550 00	
“ 705—Smith Street, sewer.....	1558	200 00	
“ 705—Literary Street, sewer.....	1273	200 00	
“ 705—Cross Street, sewer.....	1545	85 00	
“ 705—Homewood Avenue, grading.....	1426	750 00	
“ 705—Kennedy Street, sewer.....	1517	300 00	
“ 706—E. Prospect Street, sewer.....	1515	150 00	
“ 706—Detroit Street, sewer.....	1481	1,300 00	
“ 706—Cross Street, sewer.....	1278	175 00	
“ 706—Wade Avenue, sewer.....	1536	175 00	
<i>Forcard</i>		\$.....	\$.....

TABLE NO. 4.—*Continued.*RECAPITULATION No. 3.—*Continued.*

<i>Forward</i>		\$.....	\$.....
Note No. 706—Ocean Street, sewer.....	G. R. 265	325 00	
“ 706—Jefferson Street, sewer.....	1543	100 00	
“ 706—Otis Street, sewer.....	1494	200 00	
“ 706—Myrtle Street, sewer.....	1244	75 00	
“ 706—Hancock Street, sewer.....	1274	150 00	
“ 706—Princeton Street, sewer.....	1516	200 00	
“ 706—Minerva Street, sewer.....	1486	200 00	
“ 706—Gallup street, sewer.....	1526	600 00	
“ 706—Lester Street, sewer.....	1541	350 00	
“ 706—Literary Street, sewer.....	1480	225 00	
“ 706—Hough Street sewer.....	1182	300 00	
“ 706—Platt Street, sewer.....	1501	550 00	
“ 706—Smith Street, sewer.....	1558	200 00	
“ 706—Literary Street, sewer.....	1273	200 00	
“ 706—Cross Street, sewer.....	1545	85 00	
“ 706—Homewood Avenue, grading.....	1426	750 00	
“ 706—Kennedy Street, sewer.....	1517	300 00	
“ 707—E. Prospect Street, sewer.....	1515	150 00	
“ 707—Jefferson Street, sewer.....	1543	100 00	
“ 707—Minerva Street, sewer.....	1486	200 00	
“ 707—Lester Street, sewer.....	1541	350 00	
“ 707—Literary Street, sewer.....	1480	225 00	
“ 707—Smith Street, sewer.....	1558	200 00	
“ 707—Cross Street, sewer.....	1545	85 00	
“ 707—Homewood Avenue, grading.....	1426	750 00	
“ 708—E. Prospect Street, sewer.....	1515	150 00	
“ 708—Jefferson Street, sewer.....	1543	100 00	
“ 708—Minerva Street, sewer.....	1486	200 00	
“ 708—Lester Street, sewer.....	1541	350 00	
“ 708—Literary Street, sewer.....	1480	225 00	
“ 708—Smith Street, sewer.....	1558	200 00	
<i>Forward</i>		\$.....	\$.....

TABLE NO. 4.—Continued.

RECAPITULATION No. 3.—Continued.

<i>Forward</i>	\$.....	\$.....
Note No. 708—Cross Street, sewer.....	1545	95 00
" 708—Homewood Avenue, grading.....	1426	750 00
" 710—Barber Avenue, sewer.....	1276	900 00
" 710—Chat ham Street, sewer.....	1243	90 00
" 710—Clinton Street, sewer	1492	100 00
" 710—Keyes Street, sewer.....	1279	200 00
" 710—Kindsvater Street, sewer.....	1559	300 00
" 710—Lorain Street, sewer.....	1496	300 00
" 710—Light Street, sewer.....	1542	200 00
" 710—Lawn Street, sewer.....	1537	1,000 00
" 710—McKinstry Street, sewer.	1483	150 00
" 710—Magnet Street, sewer.....	1524	200 00
" 710—Wade Park Avenue, sewer.....	1500	260 00
" 710—Zoeter Avenue, sewer.	1275	810 00
" 710—Central Avenue, sewer.....	1507	300 00
" 710—Dunham Avenue, paving.....	1456	600 00
" 710—Hamilton Street, paving.....	1240	400 00
" 710—Hill Street, paving.....	1418	500 00
" 710—N. Perry Street, paving.....	1410	450 00
" 710—Wheller Place, paving	1192	150 00
" 710—Miami Street, paving.....	1412	125 00
" 710—Oak Street, paving.....	1472	250 00
" 710—Livingston Street, paving.....	1416	400 00
" 710—Beech Street, paving.....	1462	450 00
" 710—Beech " "	1432	500 00
" 710—Mayfield Street, paving.....	1440	400 00
" 710—Decatur Alley, paving.....	1428	300 00
" 710—Cross Street, paving.....	1512	500 00
" 710—Huntington Street, paving.....	1534	900 00
" 710— " "	1528	400 00
" 710—Spangler Avenue, paving.....	1248	450 00
<i>Forward</i>		

TABLE NO. 4.—*Continued.*RECAPITULATION No. 3.—*Continued.*

<i>Forward</i>		\$.....	\$.....
Note No. 710—Woodland Avenue, repaving.....	G. R. 1282	650 00	
“ 710—Sterling Avenue, repaving.....	1164	200 00	
“ 710—Liberty Street, sewer.....	1522	150 00	
“ 711—Barber Avenue, sewer.....	1276	900 00	
“ 711—Chatham Street, sewer.....	1243	90 00	
“ 711—Clinton Street, sewer.....	1492	100 00	
“ 711—Keyes Street, sewer.....	1279	200 00	
“ 711—Kindsvater Street, sewer.....	1559	300 00	
“ 711—Lorain Street, sewer.....	1496	300 00	
“ 711—Light Street, sewer.....	1542	290 00	
“ 711—Lawn Street, sewer.....	1537	1,000 00	
“ 711—McKinstry Street, sewer.....	1483	150 00	
“ 711—Magnet Street, sewer.....	1524	200 00	
“ 711—Wade Park Avenue, sewer.....	1500	260 00	
“ 711—Zoeter Avenue, sewer.....	1275	810 00	
“ 711—Central Avenue, sewer.....	1507	300 00	
“ 711—Dunham Avenue, paving.....	1456	600 00	
“ 711—Hamilton Street, paving.....	1240	400 00	
“ 711—Hill Street, paving.....	1418	500 00	
“ 711—N. Perry Street, paving.....	1410	450 00	
“ 711—Wheller Place, paving.....	1192	150 00	
“ 711—Miami Alley, paving.....	1412	125 00	
“ 711—Oak Place, paving.....	1472	250 00	
“ 711—Livingston Street, paving.....	1416	400 00	
“ 711—Beech Street, paving.....	1462	450 00	
“ 711— “ “	1432	500 00	
“ 711—Mayfield Street, paving.....	1440	400 00	
“ 711—Decatur Alley, paving.....	1428	300 00	
“ 711—Cross Street, paving.....	1512	500 00	
“ 711—Huntington Street, paving.....	1534	900 00	
“ 711— “ “	1528	400 00	
<i>Forward</i>		\$.....	\$.....

TABLE NO. 4.—Continued.

RECAPITULATION NO. 3.—Continued.

<i>Forward</i>	G. R.	\$.....	\$.....
Note No. 711—Spangler Avenue, paving.....	1248	450 00	
“ 711—Woodland Avenue, repaving.....	1282	650 00	
“ 711—Sterling Avenue, repaving.....	1164	200 00	
“ 711—Liberty Street, sewer.....	1522	150 00	
“ 712—Keys Street, sewer.....	1279	200 00	
“ 712—Kindsvater Street, sewer.....	1559	300 00	
“ 712—Light Street, sewer.....	1542	200 00	
“ 712—McKinstry Street, sewer.....	1483	175 00	
“ 712—Dunham Avenue, paving.....	1456	600 00	
“ 712—Hamilton Street, paving.....	1240	400 00	
“ 712—Hill Street, paving.....	1413	500 00	
“ 712—N. Perry Street, paving.....	1410	450 00	
“ 712—Wheller Place, paving.....	1192	150 00	
“ 712—Miami Street, paving.....	1412	125 00	
“ 712—Oak Street, paving.....	1472	250 00	
“ 712—Livingston Street, paving.....	1416	400 00	
“ 712—Beech Street, paving.....	1462	450 00	
“ 712— “ “	1432	500 00	
“ 712—Mayfield Street, paving.....	1440	400 00	
“ 712—Decatur Alley, paving.....	1428	300 00	
“ 712—Cross Street, paving.....	1512	500 00	
“ 712—Huntington Street, paving.....	1534	900 00	
“ 712— “ “	1528	400 00	
“ 712—Spangler Avenue, paving.....	1248	450 00	
“ 712—Woodland Avenue, repaving.....	1282	650 00	
“ 712—Sterling Avenue, repaving.....	1164	200 00	
“ 713—Keys Street, sewer.....	1279	200 00	
“ 713—Kindsvater Street, sewer.....	1559	300 00	
“ 718—Light Street, sewer.....	1542	200 00	
“ 713—McKinstry Street, sewer.....	1483	175 00	
“ 713—Dunham Avenue, paving.....	1456	600 00	
<i>Forward</i>		\$.....	\$.....

TABLE NO. 4.—Continued.

RECAPITULATION NO. 3.—Continued.

<i>Forward</i>		\$.....	\$.....
Note No. 713—Hamilton Street, paving.....	G. R. 1240	400 00	
“ 713—Hill Street, paving.....	1418	500 00	
“ 713—N. Perry Street, paving.....	1410	450 00	
“ 713—Wheller Place, paving.....	1192	150 00	
“ 713—Miami Alley, paving.....	1412	125 00	
“ 713—Oak Place, paving.....	1472	250 00	
“ 713—Livingston Street, paving.....	1416	400 00	
“ 713—Beech Street, paving.....	1462	450 00	
“ 713— “ “	1432	500 00	
“ 713—Mayfield Street, paving.....	1440	400 00	
“ 713—Decatur Alley, paving.....	1428	300 00	
“ 713—Cross Street, paving.....	1512	500 00	
“ 713—Huntington Street, paving.....	1534	900 00	
“ 713— “ “	1528	440 00	
“ 713—Spangler Avenue, paving.....	1248	450 00	
“ 713—Woodland Avenue, repaving.....	1282	650 00	
“ 713—Sterling Avenue, repaving.....	1164	200 00	
“ 714—Dunham Avenue, paving.....	1456	600 00	
“ 714—Hamilton Street, paving.....	1240	400 00	
“ 714—Hill Street, paving.....	1418	500 00	
“ 714—N. Perry Street, paving.....	1410	450 00	
“ 714—Wheller Place, paving.....	1192	150 00	
“ 714—Miami Alley, paving.....	1412	125 00	
“ 714—Oak Place, paving.....	1472	250 00	
“ 714—Livingston Street, paving.....	1416	400 00	
“ 714—Beech Street, paving.....	1462	450 00	
“ 714— “ “	1432	500 00	
“ 714—Mayfield Street, paving.....	1440	400 00	
“ 714—Decatur Alley, paving.....	1428	300 00	
“ 714—Cross Street, paving.....	1512	500 00	
“ 714—Huntington Street, paving.....	1534	900 00	
<i>Forward</i>		\$.....	\$.....

TABLE NO. 4.—Continued.

RECAPITULATION No. 3.—Continued.

<i>Forward</i>	G. R. 1525	\$.....	\$.....
Note No. 714—Huntington Street, paving.....	1525	400 00	
“ 714—Spangler Avenue, paving.....	1248	450 00	
“ 714—Woodland Avenue, repaving.....	1282	650 00	
“ 714—Sterling Avenue, repaving.....	1164	200 00	
“ 715—Dunham Avenue, paving.....	1456	600 00	
“ 715—Hamilton Street, paving.....	1240	400 00	
“ 715—Hill Street, paving.....	1418	500 00	
“ 715—N. Perry Street, paving.....	1410	450 00	
“ 715—Wheller Place, paving.....	1192	150 00	
“ 715—Miami Alley, paving.....	1412	125 00	
“ 715—Oak Place, paving.....	1472	250 00	
“ 715—Livingston Street, paving.....	1416	400 00	
“ 715—Beech Street, paving.....	1462	450 00	
“ 715— “ “	1432	500 00	
“ 715—Mayfield Street, paving.....	1440	400 00	
“ 715—Decatur Alley, paving.....	1428	300 00	
“ 715—Cross Street, paving.....	1512	500 00	
“ 715—Huntington Street, paving.....	1534	900 00	
“ 715— “ “	1528	400 00	
“ 715—Spangler Avenue, paving.....	1248	450 00	
“ 715—Woodland Avenue, repaving.....	1282	650 00	
“ 715—Sterling Avenue, repaving.....	1164	200 00	
“ 716—Dunham Avenue, paving.....	1456	600 00	
“ 716—Hamilton Street, paving.....	1240	400 00	
“ 716—Hill Street, paving.....	1418	500 00	
“ 716—N. Perry Street, paving.....	1410	450 00	
“ 716—Wheller Place, paving.....	1192	150 00	
“ 716—Miami Alley, paving.....	1412	125 00	
“ 716—Oak Place, paving.....	1472	250 00	
“ 716—Livingston Street, paving.....	1416	400 00	
“ 716—Beech Street, paving.....	1462	450 00	
<i>Forward</i>		\$.....	\$.....

TABLE No. 4.—Continued.

RECAPITULATION No. 3.—Continued.

<i>Forward</i>	G. R.	\$.....	\$.....
Note No. 716—Beech Street, paving.....	1432	500	00
“ 716—Mayfield Street, paving.....	1440	400	00
“ 716—Decatur Alley, paving.....	1428	300	00
“ 716—Cross Street, paving.....	1512	500	00
“ 716—Huntington Street, paving.....	1534	900	00
“ 716— “ “	1528	400	00
“ 716—Spangler Avenue, paving.....	1248	450	00
“ 716—Woodland Avenue, repaving.....	1282	650	00
“ 716—Sterling Avenue, repaving.....	1164	200	00
“ 717—Dunham Avenue, paving.....	1456	600	00
“ 717—Hamilton Street, paving.....	1240	400	00
“ 717—Hill Street, paving.....	1418	500	00
“ 717—N. Perry Street, paving.....	1410	450	00
“ 717—Wheller Place, paving.....	1192	150	00
“ 717—Miami Alley, paving.....	1412	125	00
“ 717—Oak Place, paving.....	1472	250	00
“ 717—Livingston Street, paving.....	1416	400	00
“ 717—Beech Street, paving.....	1462	450	00
“ 717— “ “	1432	500	00
“ 717—Mayfield Street, paving.....	1440	400	00
“ 717—Decatur Alley, paving.....	1428	300	00
“ 717—Cross Street, paving.....	1512	500	00
“ 717—Huntington Street, paving.....	1534	900	00
“ 717— “ “	1528	400	00
“ 717—Spangler Avenue, paving.....	1248	450	00
“ 717—Woodland Avenue, repaving.....	1282	650	00
“ 717—Sterling Avenue, repaving.....	1164	200	00
“ 718—Forest Street, sewer.....	1552	1,500	00
“ 718—Miami Street, sewer.....	1485	125	00
“ 718—Humboldt Street, paving.....	1444	750	00
“ 718—Rockwell Street, paving.....	1466	750	00
<i>Forward</i>		\$.....	\$.....

TABLE NO. 4.—Continued.

RECAPITULATION NO. 3—Continued.

<i>Forward</i>	G. P. 1552	\$.....	\$.....
Note No. 719—Forest Street, sewer.....	1552	1,500	00
“ 719—Miami Street, sewer.....	1485	125	00
“ 719—Humboldt Street, paving.....	1444	750	00
“ 719—Rockwell Street, paving.....	1466	750	00
“ 720—Miami Street, sewer.....	1485	125	00
“ 720—Humboldt Street, paving.....	1444	750	00
“ 720—Rockwell Street, paving.....	1466	750	00
“ 721—Miami Street, sewer.....	1485	125	00
“ 721—Humboldt Street, paving.....	1444	750	00
“ 721—Rockwell Street, paving.....	1466	750	00
“ 722—Humboldt Street, paving.....	1444	750	00
“ 722—Rockwell Street, paving.....	1466	750	00
“ 723—Humboldt Street, paving.....	1444	750	00
“ 723—Rockwell Street, paving.....	1466	750	00
“ 724—Humboldt Street, paving.....	1444	750	00
“ 724—Rockwell Street, paving.....	1466	750	00
“ 725—Humboldt Street, paving.....	1444	750	00
“ 725—Rockwell Street, paving.....	1466	750	00
“ 726— “ repaving.....	1530	275	00
“ 726—Seneca Street, repaving.....	1406	800	00
“ 726—Wood Street, repaving.....	1458	475	00
“ 726—Perry Street, repaving.....	1408	450	00
“ 727—Rockwell Street, repaving.....	1530	275	00
“ 727—Seneca Street, repaving.....	1406	800	00
“ 727—Wood Street, repaving.....	1458	475	00
“ 727—Perry Street, repaving.....	1408	450	00
“ 728—Rockwell Street, repaving.....	1530	275	00
“ 728—Seneca Street, repaving.....	1406	800	00
“ 728—Wood Street, repaving.....	1458	475	00
“ 728—Perry Street, repaving.....	1408	450	00
“ 729—Rockwell Street, repaving.....	1530	275	00
<i>Forward</i>		\$.....	\$.....

TABLE NO. 4.—Continued.

RECAPITULATION NO. 3.—Continued.

<i>Forward</i>	G. R.	\$	\$
Note No. 729—Seneca Street, repaving.....	1406	800	00
“ 729—Wood Street, repaving.....	1458	475	00
“ 729—Perry Street, repaving.....	1408	450	00
“ 730—Rockwell Street, repaving.....	1530	275	00
“ 730—Seneca Street, repaving.....	1406	800	00
“ 730—Wood Street, repaving.....	1458	475	00
“ 730—Perry Street, repaving.....	1408	450	00
“ 731—Rockwell Street, repaving.....	1530	275	00
“ 731—Seneca Street, repaving.....	1406	800	00
“ 731—Wood Street, repaving.....	1458	475	00
“ 731—Perry Street, repaving.....	1408	450	00
“ 732—Rockwell Street, repaving.....	1530	275	00
“ 732—Seneca Street, repaving.....	1406	800	00
“ 732—Wood Street, repaving.....	1458	475	00
“ 732—Perry Street, repaving.....	1408	450	00
“ 733—Rockwell Street, repaving.....	1530	275	00
“ 733—Seneca Street, repaving.....	1406	800	00
“ 733—Wood Street, repaving.....	1458	475	00
“ 733—Perry Street, repaving.....	1408	450	00
“ 734—Wade Avenue, sewer.....	1271	1,750	00
“ 735— “ “	1271	1,750	00
“ 736—Starkweather Avenue, sewer.....	1495	850	00
“ 737— “ “	1495	850	00
“ 738— “ “	1495	850	00
“ 739— “ “	1495	850	00
“ 740—Lyman Street, sewer.....	1514	800	00
“ 740—Congress Street, sewer.....	1540	200	00
“ 740—Carran Street, sewer.....	1518	300	00
“ 740—Montgomery Street, sewer.....	1525	225	00
“ 740—Chestnut Street, sewer.....	1551	167	00
“ 741—Lyman Street, sewer.....	1514	800	00
<i>Forward</i>		\$	\$

TABLE NO. 4.—Continued.

RECAPITULATION No. 3.—Continued.

<i>Forward</i>	\$.....	\$.....
Note No. 741—Congress Street, sewer.....	G. R. 1540	200 00
“ 741—Carran Street, sewer.....	1518	300 00
“ 741—Montgomery Street, sewer.....	1525	225 00
“ 741—Chestnut Street, sewer.....	1551	167 00
“ 742—Congress Street, sewer.....	1540	200 00
“ 742—Carran Street, sewer.....	1518	300 00
“ 742—Montgomery Street, sewer.....	1525	225 00
“ 742—Chestnut Street, sewer.....	1551	167 00
“ 743—Congress Street, sewer.....	1540	200 00
“ 743—Carran Street, sewer.....	1518	300 00
“ 743—Montgomery Street, sewer.....	1525	225 00
“ 743—Chestnut Street, sewer.....	1551	167 00
“ 744—Seneca Street, sewer.....	1690	2,000 00
“ 745— “ “	1690	2,000 00
“ 746—Holton Street, sewer.....	1586	2,150 00
“ 746—Sterling Avenue, paving.....	1172	600 00
“ 746—Logan Avenue, paving.....	1246	550 00
“ 746— “ “	1198	600 00
“ 746—Miami Street, paving.....	1412	100 00
“ 746—Liberty Street, paving.....	1414	300 00
“ 746—Clifton Street, sewer.....	1478	350 00
“ 746— “ “	1493	500 00
“ 746—Waring Street, sewer.....	1539	350 00
“ 747—Holton Avenue, sewer.....	1586	2,150 00
“ 747—Sterling Avenue, paving.....	1172	600 00
“ 747—Logan Avenue, paving.....	1246	550 00
“ 747— “ “	1198	600 00
“ 747—Miami Street, paving.....	1412	100 00
“ 747—Liberty Street, paving.....	1414	300 00
“ 747—Clifton Street, sewer.....	1478	350 00
“ 747— “ “	1493	500 00
<i>Forward</i>		

TABLE NO. 4.—Continued.

RECAPITULATION No. 3.—Continued.

<i>Forward</i>	\$.....	\$.....
Note No. 747—Waring Street, sewer.....	G. R. 1539	350 00
“ 748—Holton Street, sewer.....	1586	2,150 00
“ 748—Sterling Avenue, paving.....	1172	600 00
“ 748—Logan Avenue, paving.....	1246	550 00
“ 748— “ “	1198	600 00
“ 748—Miami Street, paving.....	1412	100 00
“ 748—Liberty Street, paving.....	1414	300 00
“ 748—Clifton Street, sewer.....	1478	350 00
“ 748— “ “	1493	500 00
“ 748—Waring Street, sewer.....	1539	350 00
“ 749—Holton Street, sewer.....	1586	2,150 00
“ 749—Sterling Avenue, paving.....	1172	600 00
“ 749—Logan Avenue, paving.....	1246	550 00
“ 749— “ “	1198	600 00
“ 749—Miami Street, paving.....	1412	100 00
“ 749—Liberty Street, paving	1414	300 00
“ 749—Clifton Street, sewer.....	1478	350 00
“ 749— “ “	1493	500 00
“ 749—Waring Street, sewer	1539	350 00
“ 750—Sterling Avenue, paving.....	1172	600 00
“ 750—Logan Avenue, paving.....	1246	550 00
“ 750— “ “	1198	600 00
“ 750—Miami Street, paving.....	1412	100 00
“ 750—Liberty Street, paving.....	1414	300 00
“ 751—Sterling Avenue, paving.....	1172	600 00
“ 751—Logan Avenue, paving.....	1246	550 00
“ 751— “ “	1198	600 00
“ 751—Miami Street, paving.....	1412	100 00
“ 751—Liberty Street, paving.....	1414	300 00
“ 752—Sterling Avenue, paving.....	1172	600 00
“ 752—Logan Avenue, paving	1246	550 00
<i>Forward</i>	\$.....	\$.....

TABLE NO. 4.—Continued.

RECAPITULATION No. 3.—Continued.

<i>Forward</i>	G. R. \$.....	\$.....
Note No. 752—Logan Avenue, paving	1198	600 00
" 752—Miami Street, paving.....	1412	100 00
" 752—Liberty Street, paving.....	1414	300 00
" 753—Sterling Avenue, paving.....	1172	600 00
" 753—Logan Avenue, paving.....	1246	550 00
" 753— " " 	1198	600 00
" 753—Miami Street, paving.....	1412	100 00
" 753—Liberty Street, paving.....	1414	300 00
" 754—Russell Avenue, sewer.....	1780	150 00
" 755— " " 	1780	150 00
" 756— " " 	1790	150 00
" 757—Forman Street, sewer.....	1548	650 00
" 757—Lyman Street, sewer.....	1523	500 00
" 758—Forman Street, sewer.....	1548	650 00
" 758—Lyman Street, sewer.....	1523	500 00
" 759—Forman Street, sewer.....	1548	650 00
" 760— " " 	1548	650 00
		220,823 00
TEMPORARY LOANS ON ACCOUNT OF BROOKLYN VILLAGE ANNEXATION.		
Pearl Street, paving.....	1149	3,663 20
Marvin Avenue, sewer.....	1156	2,333 32
Pearl Street, sewer.....	1146	722 55
Rhodes Avenue, sewer.....	1150	325 85
		7,044 92
Total city debt		\$ 9,625,867 92

TABLE NO. 5.
 THE MUNICIPAL LEVY IN THE TAX OF 1893, UPON A
 VALUATION OF \$126,515,990, TO MEET THE
 EXPENSE OF 1894.

FOR WHAT FUND.	Mills per Dollar.	Amount Levied.	Estimated Net Receipts.*
Bridge.....	6-20	\$ 37,954 80	\$ 36,900 00
Dredging	2-20	12,651 60	12,300 00
Fire.....	2 18-20	366,896 38	356,700 00
General.....	1	126,515 99	123,000 00
House of Correction.....	2-20	12,651 60	12,300 00
Interest.....	1 14-20	215,077 18	209,100 00
Interest levied by Park Board.....	4-20	25,303 20	24,600 00
Lighting.....	1 9½-20	186,611 06	181,425 00
Park.....	9-20	56,932 19	55,350 00
Paving.....	8-20	50,606 39	49,200 00
Police.....	1 15-20	221,402 98	215,250 00
Sanitary.....	5½-20	34,791 90	33,825 00
Sinking Fund for General Bonds.....	1 16-20	227,728 80	221,400 00
Street.....	16-20	101,212 80	98,400 00
Street Intersections.....	7-20	44,280 59	43,050 00
Viaduct and Canal Sinking Fund	1-20	6,325 80	6,150 00
Total	13 13-20	\$ 1,726,943 26	\$ 1,678,950 00

* Auditor's Estimate.

TABLE NO. 5—Continued.

Valuation, \$126,515,990x\$0.01365.....		\$ 1,726,943 26
Additions.....		39,000 00
Delinquencies and penalties of former years on Realty.....		49,500 00
Net collection of delinquent Personal Tax.....		3,500 00
		\$ 1,818,943 26
To be accounted for.....		
Deduct abatements.....	\$ 31,000 00	
" County Treasurer's and Inquisitor's fees	20,000 00	
" Fireman's Pension Fund.....	16,000 00	
" Police Pension Fund.....	16,000 00	
" Cost of printing delinquent tax list.....	500 00	
" Delinquent tax.....	56,498 26	139,998 26
		\$ 1,678,950 00
Net for distribution.....		

TABLE NO. 6.
STATEMENT SHOWING THE AMOUNT AND PROCEEDS OF SALE OF BONDS DURING
THE YEAR 1893.

Date.	To Whom Sold.	Placed to the credit of the following Funds.	Rate.	Principal.	Premium.	Accrued Interest.	Bond Numbers.
March 30.	Sinking Fund Commissioners at par	Walworth St. opening.....	5 per cent.	\$ 5,000 00		\$.....	2547 to 2541
"	"	Sewer District No. 16	"	17,000 00			2542 to 2518
April 1.	"	Kinsman St. paving..... G. R. 1074	"	7,000 00			2403 to 2409
"	"	E. Prospect St. paving.. " 1436	"	11,000 00			2316 to 2326
"	"	Broadway paving..... " 1424	"	8,000 00			2171 to 2178
July 1.	"	Sewer District No. 10.....	"	2,000 00		25 00	2519 to 2520
August 2.	"	Broadway paving..... G. R. 1424	"	2,000 00		33 33	2179 to 2180
"	"	Sewer District No. 17.....	"	4,000 00			2521 to 2524
Sept. 1.	"	Sewer District No. 17.....	"	8,000 00		253 34	2525 to 2522
Dec. 9.	"	Canal.....	"	20,000 00		191 67	3024 to 36 3
		Total Bonds sold Sinking Fund Commissioners		\$84,000 00			

TABLE NO. 6—Continued.

Date.	To Whom Paid.	Placed to the credit of the following Funds.	Rate.	Principal.	Premium.	Accrued Interest.	Bond Numbers.
		Burton St. paving.....	5 per cent.	\$32,000 00	\$ 374 39	\$ 181 68	2076 to 2107
		Broadway, paving.....	"	63,000 00	737 10	357 68	2108 to 2170
		Bolivar St. paving.....	"	9,000 00	105 30	51 10	2181 to 2189
		Clinton St. paving.....	"	14,000 00	163 80	79 48	2190 to 2203
		Centra Ave. paving.....	"	16,000 00	187 19	90 85	2204 to 2219
		Champlain St. paving.....	"	10,000 00	117 00	56 77	2220 to 2229
		East River St. paving.....	"	16,000 00	187 20	90 84	2230 to 2245
		East Prospect, paving.....	"	70,000 00	819 00	397 43	2246 to 2315
		Fourth Ave. paving.....	"	8,000 00	93 56	45 42	2327 to 2334
		Genesee Ave. paving.....	"	12,000 00	140 40	68 13	2335 to 2346
		Harkness Ave. paving.....	"	13,000 00	152 06	73 81	2347 to 2359
		Kinsman St. paving.....	"	43,000 00	503 09	244 13	2360 to 2402
		Michigan St. paving.....	"	10,000 00	117 00	56 78	2410 to 2419
		Marvin Ave. paving.....	"	14,000 00	163 79	79 48	2420 to 2433
		Orange St. paving.....	"	17,000 00	198 90	96 52	2434 to 2450
		Orange St. paving.....	"	12,000 00	140 39	68 13	2451 to 2462
		Prospect St. paving.....	"	19,000 00	222 29	107 87	2463 to 2481
		Payne Ave. paving.....	"	68,000 00	795 60	386 07	2482 to 2549
		South Woodland, paving.....	"	18,000 00	210 50	102 20	2550 to 2567
June 3.	Seasongood & Mayer, Cincinnati, O., \$493,000 5 per cent. bonds, maturing April, 1894, to Oct., 1897. Premium, \$5,768 00. Accrued Interest, \$2,799 02.						

DEPARTMENT OF ACCOUNTS.

TABLE No. 6—Continued.

Date.	To Whom Sold.	Placed to the credit of the following Funds.	Rate.	Principal.	Premium.	Accrued Interest.	Bond Numbers.
June 3.	Seasonood & Mayer, Cincinnati, O., \$485,000 5 per cent. bonds, maturing April, 1914. t. Oct., 1907. Premium, \$3,784.00 and Accrued Interest, \$2,739.02.....	Superior St. paving..... (G. R. 1402	5 per cent.	\$ 18,000 00	\$ 210 60	\$ 102 20	2568 to 2585
June 3.	Seasonood & Mayer, Cincinnati, O., \$200,000 bonds, maturing April 1, 1903.....	Seneca St. paving..... " 1508	"	11,000 00	128 68	62 45	2586 to 2586
August 1.	Euclid Ave. National Bank of Cleveland, O., \$112,000 bonds, maturing Oct. 1, 1902.....	Water Works.....	4 per cent.	200,000 00	4,625 00	3,632 01	2587 to 2746
August 1.	Blake Bros. & Co. of Boston, Mass., \$112,000 bonds, maturing Oct. 1, 1902.....	(Funded Debt.....	5 per cent.	110,000 00	10 00	1,976 66	2833 to 2832 3045 to 3054 3055 to 3056
August 23.	Society for Savings of Cleveland, O., \$5,000 bonds at par, maturing Oct. 1, 1908.....	{ Sewer District No. 16.....	"	2,000 00			
October 28.	Splitzer & Co. of Boston, Mass., \$100,000 bonds, maturing Oct. 1, 1902.....	Funded Debt.....	"	112,000 00	390 00	5,216 67	2853 to 3044
Dec. 1.	R. L. Day & Co. of Boston, Mass., \$52,000 bonds, maturing Oct. 1, 1903.....	Sewer District No. 3.....	"	35,000 00		685 22	3580 to 3623
Dec. 21.	N. W. Harris & Co., Chicago, Ill., \$30,000 bonds, maturing Oct. 1, 1903.....	Fire Department.....	"	100,000 00	6,653 00	326 76	3342 to 3411
		{ Fire Department.....	"	147,000 00	11,460 12	3,480 10	3442 to 3506
		{ Bridge Repair.....	"	295,000 00	22,218 60		3637 to 3541
		Canal Bonds.....	"	130,000 00	10,368 28	1,444 42	3624 to 3773
	Total Bonds issued.....			1,036,000 00			
	Total Premium.....			61,473 00	61,473 00		
	Total Accrued Interest.....			20,046 10		20,046 10	
	Total Proceeds of Bonds.....			1,776,519 10			

TABLE No. 7.

TABLE NO. 7.

STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS OF THE CITY OF

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record Number and Page.	1894.	
						\$.....	\$.....
Funded Debt			\$.....			\$.....	\$.....
"	7	1874	200,000	April & Oct.	3-137	200,000	.....
"	5	1880	308,000	Mar. & Sept.	1-112	.....	.....
"	5	1884	26,000	April & Oct.	1-132	.....	.....
"	4	1886	117,000	Mar. & Sept.	1-148	.....	.....
"	5	1887	177,000	April & Oct.	1-157	.....	.....
"	5	1887	88,000	"	1-154	.....	.....
"	5	1888	29,000	"	2-74	.....	.....
"	5	1889	39,000	"	2-78	.....	.....
"	5	1889	100,000	May & Nov.	2-75	.....	.....
"	4	1889	46,000	April & Oct.	2-90	.....	.....
"	4½	1890	27,000	"	8-7	.....	.....
"	5	1891	127,000	"	8-30	.....	.....
"	4½	1892	217,000	"	8-66	.....	.....
"	5	1893	5,000	"	8-106	.....	.....
"	5	1893	222,000	"	8-107	.....	.....
Canal	5	1893	150,000	Apr. & Oct.	8-136	.....	.....
"	7	1876	114,000	Mar. & Sept.	1-50	.....	.....
"	6	1879	11,000	May & Nov.	1-74	.....	.....
Viaduct	7	1874	65,000	"	1-25	65,000	.....
"	7	1874	205,000	April & Oct.	1-28	.....	205,000
"	6	1875	300,000	"	1-38	.....	.....
"	6	1876	500,000	Feb. & Aug.	1-54	.....	.....
"	5	1877	125,000	June & Dec.	1-75	.....	.....
"	6	1877	125,000	"	1-80	.....	.....
Total							

TABLE NO. 7.—Continued.

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record Number and Page.	1894.	
<i>Forward.....</i>							
Viaduct.....	6	1877	\$ 100,000	May & Nov.	1-85	\$.....	\$.....
"	6	1878	100,000	Mar. & Sept.	1-89		
"	6	1878	300,000	June & Dec.	1-93		
"	6	1878	170,000	May & Nov.	1-104		
Kingsbury Bridge.....	5	1884	65,000	April & Oct.	2-100		
"	4½	1885	60,000	"	2-102		
"	4	1885	60,000	"	2-104		
"	4	1886	30,000	May & Nov.	2-106		
"	4	1887	10,000	Mar. & Sept.	2-107		
"	5	1887	20,000	April & Oct.	2-108		
General Bonds.....	4½	1885	20,000	June & Dec.	1-135		
"	4	1886	25,000	April & Oct.	1-147		
Elevated Roadway.....	4	1886	175,000	Jan. & July.	2-120		
"	4	1886	60,000	May & Nov.	2-126		
"	4	1886	100,000	April & Oct.	2-128		
"	4	1887	100,000	Jan. & July.	2-132		
"	4	1887	75,000	June & Dec.	2-125		
"	5	1887	150,000	"	2-138		
"	5	1888	100,000	"	2-143		
"	5	1888	114,000	"	2-147		
"	5	1888	10,000	"	2-150		
"	5	1889	8,000	"	2-150		
Pearl St. Bridge.....	4	1886	10,000	April & Oct.	1-144		
"	4	1887	25,000	"	1-144		
"	5	1887	20,000	"	1-145		
Petrie St. Bridge.....	4	1887	5,000	"	1-153	5,000	
City Farm School.....	4½	1890	14,000	"	8-1		
Total							

TABLE NO. 7—Continued.

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record Number and Page.	1894.	
<i>Forward</i>							
Fire Department	4	1890	\$ 75,000	April & Oct.	8-1	\$.....	\$.....
"	5	1891	15,000	"	8-37		
"	5	1893	100,000	"	8-125		
"	5	1893	147,000	"	8-129		
Police Station	5	1891	20,000	May & Nov.	8-23		
New Central Police Station.....	4½	1892	100,000	"	8-62		
Bridge Repair.....	5	1892	30,000	April & Oct.	8-42		
"	5	1892	50,000	"	8-58		
"	5	1892	16,000	"	8-74		
"	4½	1892	74,000	"	8-75		
"	5	1893	285,000	"	8-15		
Total						\$270,000	\$205,000

TABLE NO. 7—Continued.

1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1907	Total.
\$ 75,000	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$ 75,000
15,000											15,000
							100,000				100,000
								147,000			147,000
						20,000					20,000
		100,000									100,000
30,000											30,000
50,000											50,000
		16,000									16,000
		74,000									74,000
								285,000			285,000
\$64,000	\$802,000	\$441,000	\$915,000	\$380,000	\$276,000	\$384,000	\$503,000	\$632,000	\$232,000	\$125,000	\$ 6,129,000

Amount of General Bonds outstanding December 31, 1893.....\$6,129,000
 Amount of General Bonds outstanding December 31, 1892..... 5,735,000
 Increase during the year 1893.....\$ 394,000

TABLE No. 7 A.

STATEMENT SHOWING THE AMOUNT OF WATER WORKS
31, 1893, AND MATURING

Class of Bonds.	Rate per cent.	Date of Original Issu.	Amount of Original Issue.	Months when Principal and Interest are due.	Record Number and Page.	1894.
Water Works.....	6	1875-1876	\$ 200,000	Mar. and Sept.	3-65	.....
"	$3\frac{65}{100}$	1882	100,000	"	3-74	.....
"	4	1883	100,000	Jan. and July.	2-40	.....
"	6	1883-1884	500,000	Mar. and Sept.	2-44	.....
"	6	1885	275,000	"	2-62	.....
"	$4\frac{1}{2}$	1892	400,000	April and Oct.	8-43	.....
"	4	1893	200,000	"	8-49	.....
Total						

TABLE No. 7 A—Continued.

BONDS OF THE CITY OF CLEVELAND OUTSTANDING DEC.
AS FOLLOWS:

1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total.
200,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 200,000
							100,000		100,000
								100,000	100,000
		500,000							500,000
					275,000				275,000
							400,000		400,000
								200,000	200,000
200,000	\$.....	\$500,000	\$.....	\$.....	\$275,000	\$.....	\$500,000	\$300,000	\$ 1,775,000

Amount of Water Works Bonds outstanding December 31, 1893.....\$1,775,000

TABLE No. 8.

STATEMENT SHOWING AMOUNT OF STREET
1893, AND MATUR-

G. R.		Rate per cent.	Amount of Original Issue.	Date of Original Issue.	Number of Bonds.
754	Auburn St. paving, Pearl to Scranton.....	5	\$ 3,000	1891	267 to 269
718	Bond St. paving, Summit to Superior.....	5	20,000	1891	270 to 289
792	Bridge St. paving, Pearl to Liberty.....	5	37,000	1891	290 to 325
776	Case Ave. paving, Central to Woodland.....	5	32,000	1891	327 to 358
816	Cedar Ave. repaving, E. Madison to Fairmount....	5	24,000	1891	359 to 382
818	Cornell St. paving, Euclid to Catawba.....	5	7,000	1891	383 to 389
802	Forest St. paving, Central to Croton.....	5	29,000	1891	390 to 418
710	Huron St. paving, Sheriff to Erie.....	5	10,000	1891	419 to 428
822	Huntington St. paving, Euclid to Prospect.....	5	4,000	1891	429 to 432
714	Lorain St. paving, Ridge to Geib.....	5	11,000	1891	433 to 443
865	Lorain St. repaving, Pearl to Columbus.....	5	4,000	1891	444 to 447
833	Lincoln Ave. paving, Euclid to Cedar.....	5	5,000	1891	448 to 452
564	Sawtell Ave. paving, Woodland to Julia.....	5	10,000	1891	453 to 462
570	Willson Ave. paving, St. Clair to Euclid.....	5	75,000	1891	463 to 537
722	Clark Ave. paving, Pearl to C. C. C. & St. L. R. R.	5	42,000	1891	690 to 731
979	Sibley St. paving, Case to Willson.....	5	9,000	1891	889 to 897
768	Willson Ave. paving, Woodland to Julia.....	5	18,000	1891	898 to 915
824	Lorain St. paving, Geib to Henley.....	5	36,000	1891	964 to 999
909	Central Ave. paving, Erie to Brownell.....	5	13,000	1892	1011 to 1023
1122	Dodge St. paving, Lake to Euclid.....	5	13,000	1892	1024 to 1036
1070	Bolton Ave. paving, Cedar to Quincy.....	5	10,000	1892	1037 to 1046
1068	East Madison Ave. paving, Euclid to Cedar.....	5	12,000	1892	1047 to 1058
1124	Kennard St. paving, Central to Scovill.....	5	14,000	1892	1059 to 1072
1126	Russell Ave. paving, Lexington to Euclid.....	5	11,000	1892	1073 to 1083
878	Swiss St. paving, Lorain to Clark.....	5	21,000	1892	1561 to 1584
1128	Huron St paving, Prospect to Euclid.....	5	9,000	1892	1612 to 1620

TABLE NO. 8.—Continued.

IMPROVEMENT BONDS OUTSTANDING DEC. 31,
ING AS FOLLOWS:

1894		1895.		1896.		1897.		Total.
April.	Oct.	April.	Oct.	April.	Oct.	April.	Oct.	
\$	\$ 1,000	\$	\$ 1,000	\$	\$			\$ 2,000
2,000	3,000	2,000	3,000					10,000
4,000	5,000	5,000	5,000					19,000
4,000	4,000	4,000	5,000					17,000
3,000	3,000	3,000	3,000					12,000
	2,000		2,000					4,000
3,000	4,000	4,000	4,000					15,000
	3,000		3,000					6,000
	1,000		1,000					2,000
	3,000		3,000					6,000
	1,000		1,000					2,000
	1,000		2,000					3,000
	2,000		2,000		2,000			6,000
9,000	10,000	9,000	10,000					38,000
5,000	5,000	6,000	6,000					22,000
1,000	1,000	1,000	1,000	1,000	1,000			6,000
2,000	3,000	2,000	3,000					10,000
4,000	4,000	4,000	4,000	4,000	4,000			24,000
1,000	2,000	1,000	2,000	2,000	2,000			10,000
1,000	2,000	1,000	2,000	2,000	2,000			10,000
1,000	2,000	1,000	1,000	1,000	2,000			8,000
1,000	2,000	1,000	2,000	1,000	2,000			9,000
1,000	2,000	2,000	2,000	2,000	2,000			11,000
1,000	2,000	1,000	2,000	1,000	2,000			9,000
3,000	3,000	2,000	3,000	2,000	3,000			16,000
1,000	1,000	1,000	1,000	1,000	2,000			7,000

TABLE NO. 8.--Continued.

G. R.		Rate per cent.	Amount of Original Issue.	Date of Original Issue.	Number of Bonds.
852	Burton St. paving, Clark to Lorain.....	5	\$ 32,000	1893	2076 to 2107
208	Broadway paving, Union to Miles.....	5	73,000	1893	2108 to 2180
1180	Bolivar St. paving, Erie easterly.....	5	9,000	1893	2181 to 2189
1430	Clinton St. paving, Hanover to Liberty.....	5	14,000	1893	2190 to 2203
1170	Central Ave. paving, Willson to C. & P. Ry.....	5	16,000	1893	2204 to 2219
1470	Champlain St. repaving, Canal to Ontario.....	5	10,000	1893	2220 to 2229
1498	E. River St. repaving, Front to St. Clair.....	5	16,000	1893	2230 to 2245
1436	E. Prospect St. paving, Willson to Bolton.....	5	81,000	1893	2246 to 2326
1284	Fourth Ave. paving, Willson to Second.....	5	8,000	1893	2327 to 2334
1434	Genesee Ave. paving, Hough to Wade Park Ave..	5	12,000	1893	2335 to 2346
1420	Harkness Ave. paving, Euclid to Hough.....	5	13,000	1893	2347 to 2359
1074	Kinsman St. paving, Willson to Woodland Hills..	5	50,000	1893	2360 to 2409
1460	Michigan St. repaving, Canal to Ontario.....	5	10,000	1893	2410 to 2419
1504	Carvin Ave. paving, Pearl to Rhodes.....	5	14,000	1893	2420 to 2433
1438	Orange St. paving, Perry to Humboldt.....	5	17,000	1893	2434 to 2450
1468	" " Cross to Perry.....	5	12,000	1893	2451 to 2462
1404	Prospect St. repaving, Ontario to Erie.....	5	19,000	1893	2463 to 2481
1290	Payne Ave. paving, Muirson to Willson.....	5	68,000	1893	2482 to 2549
1454	S. Woodland Ave. repaving, Lincoln to Woodland	5	18,000	1893	2550 to 2567
1402	Superior St. repaving, Water to Public Square.....	5	18,000	1893	2568 to 2585
1508	{ Seneca St. repaving, Stones Levee to S. line of } { Stones Levee.....	5	11,000	1893	2586 to 2596

TABLE NO. 9.

**STATEMENT SHOWING AMOUNT OF STREET DAMAGE
MATURING**

	Rate per cent.	Number of Bonds.	1894.		1895.	
			Apr.	Oct.	Apr.	Oct.
Walworth Street opening.....	4	90 to 189	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000

TABLE NO. 9—*Continued.*

BONDS OUTSTANDING DECEMBER 31, 1893, AND
AS FOLLOWS :

1896.		1897.		1898.		1899.		1900.		Total.
Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	
\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 70,000
Amount of street damage bonds outstanding December 31, 1892.....\$80,000 " " " " " " " " " " " " 31, 1893..... 70,000 Decrease during the year 1893.....\$10,000										

TABLE NO. 10.—*Continued.*

	Rate per cent.	Number of Bonds.	Record No. and Page.	1894.		1895.		1896.	
				Apr.	Oct.	Apr.	Oct.	Apr.	Oct.
Sewer District No. 16.....	5	916 to 918	.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 3,000
" " 16.....	5	947 to 948	.....	.....	.....	.....	.....	.....	2,000
" " 16.....	5	3055 to 3056	.....	.....	.....	.....	.....	.....	.....
" " 16.....	5	2802 to 2818	.....	.....	.....	.....	.....	.....	.....
" " 17.....	5	.....	6-126	2,000	2,000	2,000	2,000	.....	.....
" " 17.....	5	2821 to 2832	.....	.....	.....	.....	.....	2,000	2,000
" " 18.....	5	533 to 547	.....	.....	4,000	.....	4,000	.....	.....
" " 18.....	5	732 to 761	.....	.....	.....	.....	.....	.....	5,000
Total.....			.....	\$ 2,000	\$ 83,000	\$ 92,000	\$ 43,000	\$ 2,000	\$ 55,000

TABLE NO. II.

RECAPITULATION OF BONDED INDEBTEDNESS OF
MATURING

	1894	1895	1896	1897	1898
Funded Debt.....	\$ 200,000	\$ 27,000	\$ 276,000	\$ 26,000	334,000
Canal.....		88,000	26,000		11,000
Viaduct.....	270,000	300,000	500,000	225,000	570,000
Kingsbury Bridge.....					
General Bonds.....		45,000			
Elevated Roadway.....					
Pearl St. Bridge.....					
Petrie St. Bridge.....	5,000				
City Farm School.....		14,000			
Fire Department.....		90,000			
Police Station.....				100,000	
Bridge Repair.....		80,000		90,000	
Total General Bonds.....	475,000	644,000	802,000	441,000	915,000
Street Improvement Bonds.....	243,000	250,000	174,000	138,000	
Street Damage Bonds.....	10,000	10,000	10,000	10,000	10,000
Sewer Bonds.....	85,000	135,000	57,000	73,000	84,000
Water Works Bonds.....		200,000		500,000	
Total.....	\$ 813,000	\$1,239,000	\$1,043,000	\$1,162,000	\$1,009,000

Amount of General and Special bonded indebtedness December 31, 1893.....\$9,398,000 00

Amount of General and Special bonded indebtedness December 31, 1892..... 8,567,000 00

Increase during the year 1893.....\$ 831,000 00

TABLE NO. 11—Continued.

THE CITY OF CLEVELAND DECEMBER 31st, 1893,
AS FOLLOWS:

1899	1900	1901	1902	1903	1904	1907	Total.
\$ 265,000	156,000	\$ 139,000	\$ 273,000	\$.....	\$.....	\$.....	\$ 1,686,000
				150,000			275,000
						125,000	1,990,000
125,000	120,000						245,000
							45,000
		235,000	100,000	325,000	232,000		892,000
			30,000	25,000			55,000
							5,000
							14,000
			100,000	147,000			337,000
		20,000					120,000
				285,000			455,000
390,000	276,000	394,000	503,000	932,000	232,000	125,000	6,129,000
							805,000
10,000	10,000						70,000
45,000	106,000	28,000	6,000				619,000
	275,000		500,000	300,000			1,775,000
\$ 445,000	\$ 667,000	\$ 422,000	\$1,009,000	\$1,252,000	\$ 232,000	\$ 125,000	\$ 9,308,000

TABLE NO. 12.
SHOWING COMPARISON OF THE CITY DEBT
JAN. 1, 1893, AND JAN. 1, 1894.

JANUARY 1, 1894.		
General Bonds outstanding.....		\$6,120,000 00
Special Bonds outstanding—		
Sewer Bonds.....\$ 619,000 00		
Street Improvement Bonds..... 805,000 00		
Street Damage Bonds..... 70,000 00		
Water Works Bonds..... 1,775,000 00		
		3,269,000 00
Temporary Loans—		
On Account of Street Improvements.....\$ 220,823 00		
On Account of Brooklyn Village Annex'n. 7,044 92		227,867 92
		227,867 92
Total Debt.....		\$ 9,625,867 92
JANUARY 1, 1893.		
General Bonds outstanding.....		\$5,735,000 00
Special Bonds outstanding—		
Sewer Bonds.....\$ 580,000 00		
Street Improvement Bonds..... 397,000 00		
Street Damage Bonds..... 80,000 00		
Water Works Bonds..... 1,775,000 00		
		2,832,000 00
Temporary Loans.		
On Account of Street Improvements.....\$ 129,360 00		
On Account of Brooklyn Village Annex'n. 9,320 87		137,680 87
		137,680 87
Total Debt.....		8,704,680 87
Increase of city debt of all kinds during the year 1893.....		\$ 921,187 05

TABLE No. 13.

DEPARTMENT OF ACCOUNTS.

TABLE NO. 13—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1885	June.....	\$ 20,000	\$ 27,375 00	\$.....	\$.....	\$ 47,375 00	
"	July.....	.....	7,500 00	.....	.....	7,500 00	
"	August.....	.....	15,000 00	.....	.....	15,000 00	
"	September.....	298,000	47,505 00	1,533 45	143 07	337,201 52	
"	October.....	725,000	101,292 50	5,870 00	129 57	982,292 07	
"	November.....	.....	15,480 00	22,327 00	1,889 44	39,696 44	
"	December.....	.....	26,925 00	.....	.....	26,925 00	\$ 1,735,680 69
1886	January.....	.....	7,500 00	.....	.....	7,500 00	
"	February.....	.....	15,000 00	.....	.....	15,000 00	
"	March.....	.....	38,425 00	.....	96 46	38,521 46	
"	April.....	85,000	82,275 00	.....	.....	167,275 00	
"	May.....	.....	15,480 00	16,645 00	1,721 23	33,846 23	
"	June.....	.....	26,925 00	.....	.....	26,925 00	
"	July.....	.....	7,500 00	.....	.....	7,500 00	
"	August.....	500,000	15,000 00	.....	.....	515,000 00	
"	September.....	302,000	38,425 00	1,533 45	96 46	342,074 91	
"	October.....	156,000	80,195 00	3,370 00	70 19	289,635 19	
"	November.....	.....	15,480 00	13,425 00	989 39	29,904 39	

TABLE NO. 13—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1886	December.....	\$.....	\$ 28,925 00	\$.....	\$.....	\$ 28,925 00	\$ 1,450,107 18
1887	January.....	.....	7,500 00	.....	.....	7,500 00	
"	March.....	.....	30,615 00	.....	49 85	30,664 85	
"	April.....	68,000	76,320 00	.....	.....	145,320 00	
"	May.....	100,000	15,480 00	13,805 00	1,246 74	130,531 74	
"	June.....	125,000	28,925 00	.....	.....	151,925 00	
"	July.....	.....	7,500 00	.....	.....	7,500 00	
"	September.....	500,000	30,615 00	1,553 41	49 85	52,218 26	
"	October.....	288,000	74,620 00	530 00	541 04	343,691 04	
"	November.....	100,000	13,230 00	13,275 00	331 88	126,836 88	
"	December.....	.....	23,175 00	.....	.....	23,175 00	1,499,362 77
1888	January.....	.....	7,500 00	.....	.....	7,500 00	
"	March.....	100,000	15,615 00	.....	3 26	115,618 26	
"	April.....	7,000	68,155 00	.....	.....	75,155 00	
"	May.....	.....	10,230 00	.....	.....	10,230 00	
"	June.....	300,000	23,175 00	.....	.....	323,175 00	
"	July.....	.....	7,500 00	.....	.....	7,500 00	
"	September.....	117,000	12,615 00	54 31	3 26	129,672 57	

TABLE NO. 13—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1898	October.....	\$ 304,000	\$ 68,065 00	.....	\$ .....	\$ 372,065 00	
"	November.....	181,000	10,280 00	.....	.....	191,280 00	
"	December.....	.....	14,175 00	.....	.....	14,175 00	\$ 1,246,280 83
1899	January.....	.....	7,500 00	.....	.....	7,500 00	
"	March.....	.....	10,275 00	.....	1 63	10,276 63	
"	April.....	5,000	61,045 00	.....	.....	66,045 00	
"	May.....	.....	4,900 00	.....	.....	4,900 00	
"	June.....	.....	14,175 00	.....	.....	14,175 00	
"	July.....	.....	7,500 00	.....	.....	7,500 00	
"	September.....	.....	10,275 00	54 30	1 63	10,330 93	
"	October.....	440,000	62,945 00	.....	.....	692,945 00	
"	November.....	.....	4,900 00	.....	.....	4,900 00	
"	December.....	.....	14,175 00	.....	.....	14,175 00	692,547 56
1900	January.....	.....	7,500 00	.....	.....	7,500 00	
"	March.....	285,000	10,275 00	.....	.....	295,275 00	
"	April.....	5,000	50,120 00	.....	.....	55,120 00	
"	May.....	30,000	4,900 00	.....	.....	34,900 00	
"	June.....	.....	14,175 00	.....	.....	14,175 00	
"	July.....	.....	7,500 00	.....	.....	7,500 00	

DEPARTMENT OF ACCOUNTS.

TABLE NO. 13.—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1900	September.....	\$	1,825 00	\$		1,825 00	
"	October.....	347,000	50,020 00			347,020 00	
"	November.....		4,200 00			4,200 00	
"	December.....		14,175 00			14,175 00	\$ 831,540 00
1901	January.....	175,000	7,500 00			182,500 00	
"	March.....		1,825 00			1,825 00	
"	April.....		41,670 00			41,670 00	
"	May.....	80,000	4,200 00			84,200 00	
"	June.....		14,175 00			14,175 00	
"	July.....		4,000 00			4,000 00	
"	September.....		1,825 00			1,825 00	
"	October.....	67,000	41,670 00			109,670 00	
"	November.....	100,000	2,500 00			102,500 00	
"	December.....		14,175 00			14,175 00	555,540 00
1902	January.....		4,000 00			4,000 00	
"	March.....		1,825 00			1,825 00	
"	April.....	446,000	38,985 00			485,985 00	
"	June.....		14,175 00			14,175 00	
"	July.....		4,000 00			4,000 00	

TABLE No. 13.—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1902	September.....	\$ 100,000	\$ 1,925 00	\$.....	.....	\$ 101,925 00	
"	October.....	468,000	30,075 00	.....	.....	498,075 00	
"	December.....	.....	14,175 00	.....	.....	14,175 00	\$ 1,119,070 00
1903	January.....	200,000	4,000 00	.....	.....	204,000 00	
"	April.....	200,000	19,150 00	.....	.....	219,150 00	
"	June.....	225,000	14,176 00	.....	.....	239,176 00	
"	October.....	607,000	15,150 00	.....	.....	622,150 00	
"	December.....	.....	8,925 00	.....	.....	8,925 00	1,233,400 00
1904	June.....	232,000	8,925 00	.....	.....	240,925 00	
"	December.....	.....	3,125 00	.....	.....	3,125 00	244,050 00
1905	June.....	.....	3,125 00	.....	.....	3,125 00	
"	December.....	.....	3,125 00	.....	.....	3,125 00	6,250 00
1906	June.....	.....	3,125 00	.....	.....	3,125 00	
"	December.....	.....	3,125 00	.....	.....	3,125 00	6,250 00
1907	June.....	125,000	3,125 00	.....	.....	128,125 00	128,125 00
	Totals.....	\$ 9,398,000	\$ 2,515,015 00	\$ 27,467 92	\$ 21,752 09	\$ 12,162,635 01	\$ 12,162,635 01

TABLE NO. 14.
COMPARATIVE SHOWING OF THE

	Year.	Rate of Levy in Mills.	Valuation.	Amount Levied for the General Funds.	Disbursements for Ordinary Expenses of City Government.	Total Disbursements for General Funds including Interest.
1	1871	12 10-20	\$ 57,841,746 00	\$ 723,021 83	\$ 537,906 83	\$ 774,837 90
2	1872*	15 10-20	59,728,871 00	925,797 49	646,882 53	829,328 17
3	1873	15 13-20	60,144,682 00	1,082,114 27	892,555 84	1,542,676 91
4	1874	18 5-20	73,210,144 00	1,336,085 13	856,443 97	1,189,417 95
5	1875	18 15-20	73,306,277 00	1,374,473 94	887,078 26	1,505,907 63
6	1876	18 15-20	73,562,237 00	1,379,291 93	930,748 12	1,683,634 86
7	1877	17 17-20	71,296,122 00	1,272,635 74	898,498 29	1,464,3 9 13
8	1878	15 7-20	70,139,639 00	1,076,643 46	783 392 35	1,679,003 61
9	1879	15 1-20	70,548,104 00	1,061,748 96	732,200 44	1,343,770 81
10	1880	15 15-20	73,647,194 00	1,159,943 31	784,017 62	1,379,671 17
11	1881	14 1-20	79,586,156 00	1,118,185 49	811,651 08	1,377,121 12
12	1882	14 3-20	82,684,212 00	1,169,981 51	845,306 19	1,466,438 53
13	1883	15 15-20	84,490,060 00	1,330,718 45	909,301 80	1,605,567 72
14	1884	14 4-20	85,978,500 00	1,220,897 67	1,060,282 32	2,345,318 06
15	1885	14 7-20	88,295,845 00	1,266,901 88	1,127,577 30	2,306,586 66
16	1886	13 3-20	91,084,406 00	1,197,759 93	1,133,344 08	2,004,286 39
17	1887	16 3-10	93,628,410 00	1,512,098 82	1,292,764 24	2,564,733 34
18	1888	16 3-20	95,922,585 00	1,555,106 14	1,378,480 26	2,494,603 35
19	1889	15 10-20	95,949,135 00	1,462,387 27	1,557,377 55	2,477,213 02
20	1890	15 10-20	99,614,055 00	1 544,017 82	1,653,026 90	2,686,513 43
21	1891	15 10-20	117,833,205 00	1,826,414 67	1,591,932 55	2,655,428 55
22	1892	13 9-20	121,280,215 00	1,621,218 89	1,850,237 92	2,709,761 92
23	1893	13 13-20	126,515,990 00	1,726,943 26	1,957,944 37	3,045,496 43

* Until April 1, 1872, the fiscal year ended on April 1, but during the year 1872, the law was

TABLE NO. 14.—Continued.

FOLLOWING ITEMS FOR 23 YEARS.

Interest on General Bonded Debt.	Total Par Value of all Sinking Funds December 31.	Total Amount of Bonds and City Notes Outstanding December 31.	Total Amount of Certified Estimates Outstanding December 31.	Amount of Overdrawn Balances December 31.	Total Indebtedness December 31.	
\$106,035 17	\$1,501,107 36	\$ 3,684,300 00	\$ 176,439 80	\$ 269,766 31	\$4,130,506 11	1
134,615 64	1,725,662 98	4,735,300 00	138,656 69	676,701 79	5,560,648 48	2
257,716 24	1,796,391 52	5,083,600 00	177,794 86	744,698 50	6,016,083 36	3
300,396 86	1,833,641 17	7,270,500 00	251,130 38	420,201 62	7,941,832 00	4
331,027 10	1,925,204 62	8,097,900 00	236,423 06	623,379 32	8,957,709 38	5
359,403 45	2,021,902 33	8,604,900 00	162,608 57	675,063 99	9,442,572 56	6
392,323 73	2,113,386 65	9,054,164 58	80,326 99	224,339 69	9,358,831 26	7
417,237 24	1,831,033 77	9,284,100 00	17,798 99	237,937 85	9,539,836 84	8
479,055 25	2,268,272 62	8,591,100 00	16,615 04	143,880 06	8,751,595 10	9
402,082 50	1,862,871 12	7,948,583 34	2,283 34	116,072 12	8,066,838 80	10
395,605 83	1,657,877 71	7,099 116 68	2,283 34	242,019 09	7,343,419 11	11
376,581 84	1,550,403 49	6,756,473 30	2,283 34	361,456 92	7,120,213 56	12
391,583 75	1,553,604 96	6,880,300 00	.....	171,061 62	7,051,371 62	13
398,193 50	1,644,182 34	7,273,800 00	.....	40,197 55	7,313,997 55	14
413,261 41	1,727,905 47	7,629,250 00	.....	144,179 30	7,774,179 30	15
429,500 00	1,733,724 35	8,035,330 00	.....	160,512 51	8,195,842 51	16
444,410 42	1,802,294 34	8,232,270 00	.....	151,973 54	8,384,243 54	17
467,060 00	1,887,496 50	8,349,800 00	.....	194,843 09	8,544,643 09	18
451,572 60	1,955,494 03	8,159,350 00	.....	118,061 11	8,277,311 11	19
445,237 50	2,028,895 68	8,214,760 00	.....	115,275 34	8,330,035 34	20
436,084 22	2,027,050 69	8,534,105 00	.....	201,186 73	8,735,291 73	21
321,427 50	2,156,997 83	8,704,680 87	.....	.....	8,704,680 87	22
302,430 00	2,181,702 25	9,625,867 92	.....	.....	9,625,867 92	23

changed, making the fiscal year end Dec. 31, hence the year 1872 contains but nine months.

TABLE No. 15.

ESTIMATES OF THE LEVIES IN THE TAX OF 1893,
UPON THE SEWER DISTRICTS TO MEET THE
EXPENSES OF THE YEAR 1894.

SEWER DISTRICT No. 1.		DR.	CR.
Nobd. Tax value, \$6,733,629.			
September 8—Cash.....	\$.....		\$ 2,354 52
Levy—8 mills.....			20,200 88
Repairs in 1893.....	\$ 200 00		
Repairs in 1894.....	700 00		
Wason St. sewer.....	18,000 00		
Reserve.....	2,500 00		
Surplus.....	1,159 40		
	\$ 22,559 40		\$ 22,559 40

SEWER DISTRICT No. 2.		DR.	CR.
Debt, \$5 000. Tax value, \$10,689,745.			
September 8—Cash.....	\$.....		\$ 5,668 11
Levy—½ mill.....			5,349 87
Bonds due i 1894.....	5,000 00		
Interest due in 1894.....	250 00		
Repairs in 1893.....	400 00		
Repairs in 1894.....	1,500 00		
Everett St. sewer, Payne to 480 ft. S. of P.....			
Reserve.....	3,060 00		
Surplus.....	867 98		
	\$ 11,017 98		\$ 11,017 98

TABLE NO. 15.—Continued.

SEWER DISTRICT No. 3.		
Debt—\$40,000. Tax value, \$26,792,590.		
	DR.	CR.
September 15—cash.....	\$.....	\$ 1,584 26
Levy— $\frac{1}{4}$ mill.....		13,396 29
Bonds in 1894.....	5,000 00	
Interest in 1894.....	2,000 00	
Repairs in 1893.....	400 00	
Repairs in 1894.....	1,000 00	
Judd St. sewer, Brownell to Harmon.....		
Wood St. sewer, Summit to St. Clair.....	737 00	
Reserve.....	5,000 00	
Surplus.....	1,843 55	
	\$ 15,980 55	\$ 15,980 55

SEWER DISTRICT No. 4.		
Debt, \$20,000. Tax value, \$4,231,380.		
	DR.	CR.
September 16—Cash.....	\$.....	\$.....
Levy—3 mills.....		12,694 14
Deficit.....		2,505 86
Interest in 1894.....	1,000 00	
Unclaimed money.....	500 00	
One-half of \$20,000 due in 1895.....	10,000 00	
Repairs in 1893.....	100 00	
“ 1894.....	600 00	
Reserve.....	3,000 00	
	\$ 15,200 00	\$ 15,200 00

TABLE NO. 15.—Continued.

SEWER DISTRICT No. 5.		
	DR.	CR.
Debt, \$23,000. Tax value, \$5,280,005.		
September 15—Cash.....	\$.....	\$ 2,501 28
Levy—8 mills.....		15,870 01
Bonds due in 1894.....	13,000 00	
Interest due in 1894.....	1,150 00	
Repairs in 1893.....	100 00	
Repairs in 1894.....	500 00	
Reserve.....	3,000 00	
Surplus.....	621 29	
	\$ 18,371 29	\$ 18,371 29

SEWER DISTRICT No. 6.		
	DR.	CR.
No Debt. Tax value, \$453,384.		
September 15—Cash.....		\$ 1,204 95
No levy.		
Repairs in 1893.....	50 00	
Repairs in 1894.....	100 00	
Reserve.....	1,000 00	
Surplus.....	54 95	
	\$ 1,204 95	\$ 1,204 95

TABLE NO. 15—Continued.

SEWER DISTRICT No. 7.		DR.	CR.
Debit, \$67,000. Tax value, \$11,224,025.			
September 15—Cash	\$.....		\$ 14,929 01
Levy—3 mills.....			33,672 07
Bonds in 1894.....	22,000 00		
Interest in 1894.....	3,150 00		
Repairs in 1893.....	200 00		
Repairs in 1894.....	1,000 00		
Brown St. sewer, Woodland to Platt.....			
Baker St. sewer, White Ave. to N. End.....	100 00		
Cobleigh St. sewer, Willson Ave. to E. End.....			
Dent St. sewer, White to N. End.....	100 00		
Dana St. sewer, St. Clair to Superior.....	1,935 00		
Harlem St. sewer, Kirtland to Willson.....	919 00		
Lake St. sewer, Marquette to Case.....	9,889 00		
New St. sewer, Central to Quincy.....	1,000 00		
Olive Court, Olive to E. End.....			
Outhwaite St. sewer, Cemetery to Dike.....			
Percival St., Clair to Superior.....	486 00		
Russell St., Beecher to Lexington.....	252 00		
Slater St., Scovill to Outhwaite.....			
Reserve.....	5,000 00		
Surplus.....	2,570 01		
	\$ 48,601 01		\$ 48,601 01

TABLE NO. 15—Continued.

SEWER DISTRICT No. 8.		
No Debt. Tax value, \$403,580.	DR.	CR.
September 15—Cash.....	\$.....	\$ 410 76
No levy.....		
Repairs in 1993.....	25 00	
Repairs in 1994.....	100 00	
Reserve.....	250 00	
Surplus.....	35 76	
	\$ 410 76	\$ 410 76

SEWER DISTRICT No. 9.		
No Debt. Tax value, \$10,629,250.	DR.	CR.
September 15—Cash.....	\$.....	\$.....
Levy—½ mill.....		5,313 12
Deficit.....		716 55
Unclaimed money.....	367 30	
Orders outstanding.....	262 37	
Repairs in 1993.....	400 00	
Repairs in 1994.....	1,000 00	
Reserve.....	4,000 00	
	\$ 6,029 67	6,029 67

TABLE NO. 15.—Continued.

SEWER DISTRICT No. 10.		
	DR.	CR.
Debt, \$10,000. Tax value, \$631,430.		
September 15—Cash.....	\$.....	\$ 907 51
Levy—3 mills.....		1,894 29
Deficit.....		2,598 20
Bonds due in 1894.....	1,000 00	
Interest.....	500 00	
Repairs in 1893.....	100 00	
Repairs in 1894.....	400 00	
Emmet St. sewer, Literary to Jefferson.....		
Herschel St. sewer, Literary to Scothan.....	1,837 00	
Jefferson St. sewer, University to Herschel.....	568 00	
Reserve.....	1,000 00	
	\$ 5,400 00	\$ 5,400 00

SEWER DISTRICT No. 11.		
	DR.	CR.
No debt. Tax value, \$1,829,915.		
September 15—cash.....	\$.....	\$ 179 61
Levy, 2 mills.....		3,659 83
Repairs in 1893.....	100 00	
" 1894.....	400 00	
Ackley Court, Meyer to 750 ft. S.....		
Brainard St. sewer, Scranton to Jennings.....		
Reserve.....	2,500 00	
Surplus.....	839 44	
	\$ 3,829 44	\$ 3,839 44

TABLE NO. 15.—Continued.

SEWER DISTRICT No. 12.		DR.	CR.
No debt. Tax value, 1,477,950.			
September 15—Cash.....	\$.....		\$ 579 56
Levy—3 mills.....			4,433 81
Deficit.....			1,486 63
Repairs in 1893.....		100 00	
" 1894.....		300 00	
Barber Ave. sewer, Pearl to Scranton.....			
Brevier St. sewer, Scranton to 500 ft. W.....			
Empress St. sewer, Filmore to Barber.....			
Filmore St. sewer, Pearl to Empress.....		1,200 00	
Meyer St. sewer, Pearl to Scranton.....		1,730 00	
Prame St. sewer, Pearl to Scranton.....		670 00	
Wade Ave. sewer, Rhodes to 500 ft. W.....			
Reserve.....		2,500 00	
		\$ 6,500 00	\$ 6,500 00

SEWER DISTRICT No. 14.		DR.	CR.
Debt, \$14,000. Tax value, \$2,574,215.			
September 15—Cash.....	\$.....		\$ 7,436 78
Levy—2 mills.....			5,148 43
Bonds in 1894.....		2,000 00	
Interest in 1894.....		700 00	
Repairs in 1893.....			
Repairs in 1894.....			
Reserve.....		9,000 00	
Surplus.....		885 21	
		\$ 12,585 21	\$ 12,585 21

TABLE No. 15—Continued.

SEWER DISTRICT No. 15.		DR.	CR.
Debt, \$195,000. Tax value, \$12,669,460.			
September 15—Cash.....	\$.....		\$ 619 12
Levy—3 mills.....			38 098 38
Deficit.....			13,300 50
Bonds in 1894.....	25,000 00		
Interest 1894.....	11,550 00		
Repairs in 1893.....	400 00		
Repairs in 1894.....	1,500 00		
Adelbert St. sewer, N. Y. C. & St. L. to Murray Hill.....			
Aumer Court, Wade Park Ave. to S. End.....			
Brenton St. sewer, Cedar to Central.....8.....	107 00		
Bertram St. sewer, Central to Quincy.....	165 00		
Decker Ave. sewer, E. Madison to Genesee.....	250 00		
Goldsmith St. sewer, Florence to E. End.....			
Goulding St. sewer, Woodland to S. Woodland.....			
Hort Ave. sewer, St. Clair to L. S. & M. S. R. R.	1,676 00		
Lockyear Ave. sewer, Hodge to Beckel.....			
Melrose Ave. sewer, Giddings to E. Madison.....			
Murray Hill, Adelbert to Cornell.....			
Melrose Ave. sewer, E. Madison to Genesee.....			
Princeton St. sewer, Hough to Euclid.....	500 00		
Tennyson St. sewer, S. Woodland to Evarts.....	900 00		
Reserve.....	10,000 00		
	\$ 52,048 00		\$ 52,048 00

TABLE NO. 15—Continued.

SEWER DISTRICT No. 16.		
Debt, \$38,000. Tax value, \$2,324,755.	DR.	CR.
September 15—Cash.....	\$.....	\$ 2,082 95
Levy—3 mills.....		6,974 26
Deficit.....		7,474 79
Bonds in 1894.....	4,000 00	
Interest in 1894.....	1,900 00	
Unclaimed money.....	865 00	
Repairs in 1893.....	100 00	
Repairs in 1894.....	500 00	
Selden Ave. sewer, Clark to Storer.....	4,177 00	
Sage St. sewer, Lorain to Dennison.....		
Reserve.....	5,000 00	
	\$ 16,542 00	\$ 16,542 00

SEWER DISTRICT No. 17.		
Debit, \$20,000. Tax value, \$2,379,946.	DR.	CR.
September 15—Cash.....	\$.....	\$ 1,728 90
Levy—3 mills.....		7,139 83
Deficit.....		4,431 27
Bonds in 1894.....	4,000 00	
Interest 1894.....	1,000 00	
Repairs in 1893.....	300 00	
Repairs in 1894.....	500 00	
Hamm St. sewer, Petrie to Dolloff.....	1,568 00	
Hunter St. sewer, Broadway to N. End.....	682 00	
Meade St. sewer, Broadway to Track.....	1,250 00	
Solon St. sewer, Trumbull to Warren.....		
Trumbull St. sewer, Forest to E. End.....		
Reserve.....	4,000 00	
	\$ 13,300 00	\$ 13,300 00

TABLE NO. 15—Continued.

SEWER DISTRICT No. 18.		DR.	CR.
Debt, \$38,000. Tax value, \$1,580,740.			
September 15—Cash.....	\$		\$ 2,792 76
Levy—3 mills.....			4,742 22
Deficit.....			4,865 02
Bonds in 1894.....		4,000 00	
Interest.....		900 00	
Repairs in 1893.....		100 00	
Repairs in 1894.....		200 00	
Worley St. sewer, Broadway to Spafford.....			
Harvard St. sewer.....		3,000 00	
Reserve.....		4,000 00	
	\$	12,200 00	\$ 12,200 00

SEWER DISTRICT No. 19.		DR.	CR.
No debt. Tax value, \$400,000.			
September 15—Cash.....	\$		\$ 15 00
Levy—3 mills.....			1,200 00
Unclaimed money.....		75 00	
Forman St. sewer.....			
Preparation of tax list.....		50 00	
Reserve.....		1,000 00	
	\$	1,215 00	\$ 1,215 00

TABLE NO. 15—Continued.

COMMERCIAL STREET SEWER DISTRICT.		DR.	CR.
No debt. Tax value. \$226,405.			
September 15—Cash.....	\$.....	\$	2 05
Levy - 3 mills.....	.....		679 21
Repairs in 1893.....	.....	
Repairs in 1894.....	200 00		
Reserve.....	481 26		
	\$	681 26	\$ 681 26

TABLE NO. 16.
LIST OF SPECIAL ASSESSMENTS LEVIED IN TAX OF 1893.

(I. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1893.	Amount of Assessment.
				From	To			
1802	3252	Ackley Court.	Sewer.	Meyer	Alley 750 ft. South.	2	1st	\$ 635 69
1748	3397	Adelbert	Paving.	Euclid	Murray Hill.	5	1st	3,543 35
1774	3143	Adelbert	Sewer	N. Y. C. & St. L. R.R.	Murray Hill.	2	1st	713 46
1611	2761	Addison	Sewer	White	N. End	3	1st	583 42
881	1719	Andes Alley.	Paving.	Ohio	Cross	5	3d	891 35
1655	1684	Asylum	Sewer	St. Clair	Superior.	3	3d	1,044 01
755	1227	Anburn.	Paving.	Pearl	Seranton.	5	4th	862 50
1803	3217	Anner Court.	Sewer	Waide Park	S. End	3	1st	215 00
1821	3280	Balley.	Sewer.	Burton	Willett.	3	1st	1,694 50
1612	2739	Baker.	Sewer	White	N. End	3	1st	587 93
1276	2178	Barber	Sewer	Pearl	Hitchcock.	2	2d	1,919 45
1822	3285	Bayne	Sewer.	Waverly	Gordon	2	1st	655 47
1432	2601	Beech	Paving.	Central	Scovill.	5	2d	1,986 87
1462	2674	Beech.	Paving.	Scovill.	Woodland	5	2d	1,401 41
1050	1665	Belden	Sewer.	St. Clair	Superior.	4	3d	720 63
1750	* 3296	Bell	Paving	Euclid.	Cedar.	5	1st	1,627 40

TABLE NO. 16.—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement	Limits of Improvement.		Number of Installments.	Installments of 1893.	Amount of Assessment.
				From	To			
1798	3193	Bertram	Sewer	Central	Quincy	3	1st	\$ 1,041 87
1786	2486	Bertram	Curbing	Cedar	Central	1	1st	1,241 90
1632	3105	Bismarck	Cindering	S. Woodland	Holton	3	1st	1,072 42
718	1321	Bond	Paving	Summit	Superior	5	4th	5,611 06
1070	1657	Bolton	Paving	Cedar	Quincy	5	3d	3,040 14
1180	2671	Bolivar	Paving	Erie	892 ft. East of Erie	5	2d	2,615 99
1613	2898	Brainard	Sewer	Scranton	Jennings	2	1st	2,615 50
792	1501	Bridge	Paving	Pearl	Liberty	5	4th	9,929 04
1614	2914	Bright	Sewer	Fountain Alley	Noble Alley	1	1st	898 00
1684	3096	Bright	Paving	Lake	St. Clair	5	1st	890 38
1424	2689	Broadway	Paving	Union	Miles	5	2d	21,765 90
1804	3234	Brown	Sewer	Woodland	Platt	3	1st	483 33
1091	2161	Buhrer	Sewer	Jennings	Merchant	5	3d	581 40
852	1665	Burton	Paving	Lorain	Clark	5	2d	9,614 53
1752	3-70	Canal	Repaving	Michigan	Seneca	5	1st	1,023 14
1-18	2514	Carran	Sewer	Bolton	Oakdale	3	2d	765 33
776	1365	Case	Paving	Garden	Woodland	5	4th	7,970 14

DEPARTMENT OF ACCOUNTS.

TABLE NO. 16—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1893.	Amount of Assessment.
				From	To			
1546	2840	Catawba.....	Sewer.....	Croton.....	S. End.....	3	2d	\$ 280 00
816	1555	Cedar.....	Paving.....	E. Madison.....	Fairmount.....	5	4th	6,716 41
909	1764	Central.....	Paving.....	Erie.....	Brownell.....	5	3d	3,727 76
1170	2849	Central.....	Paving.....	Willson.....	C. & P. R. R.....	5	2d	4,705 45
1570	3103	Central.....	Paving.....	C. & P. R. R.....	E. Madison.....	5	1st	5,190 30
1448	3277	Central.....	Sewer.....	Lussenden.....	E. Madison.....	1	1st	465 67
1507	2520	Central.....	Sewer.....	Lincoln.....	Alanson.....	2	2d	637 68
1636	3282	Center.....	Repaving.....	Cuyahoga River.....	West.....	5	1st	2,581 60
1784	3118	Chamberlain.....	Curbing.....	Giddings.....	Parker.....	1	1st	610 50
1470	2961	Champlain.....	Repaving.....	Canal.....	Ontario.....	5	2d	2,961 66
1243	2119	Chatham.....	Sewer.....	Ward.....	Jersey.....	2	2d	197 25
1578	2506	Chestnut.....	Paving.....	Erie.....	Dodge.....	5	1st	4,104 06
1551	2589	Chestnut.....	Sewer.....	Erie.....	Muirson.....	3	2d	335 22
1615	2761	Clara.....	Sewer.....	White.....	N. End.....	3	1st	561 77
722	1224	Clark.....	Paving.....	Pearl.....	C. C. C. & St. L. R. R.....	5	4th	11,400 16
1493	2385	Clifton.....	Sewer.....	Superior.....	Payne.....	3	2d	1,061 29
1474	2386	Clifton.....	Sewer.....	St. Clair.....	Superior.....	3	2d	801 26
1492	2388	Clinton.....	Sewer.....	Hanover.....	State.....	2	2d	228 80

DEPARTMENT OF ACCOUNTS.

TABLE NO. 16—Continued.

G. R	Ord.	Name of Street.	Kind of Improvement.	Kind of Improvement.		Number of Installments.	Amount of Assessment.
				From	To	Installments of 1903.	
1480	2470	Clinton	Paving	Hanover	Liberty	5 2d	\$ 4,192 61
1616	2883	Cobleigh	Sewer	Willson	E. End	1 1st	640 69
1533	3044	Colgate	Sewer	Gordon	Ridge	3 1st	1,553 61
1824	3278	Colgate	Sewer	Ridge	City Limits	2 1st	398 80
1823	3283	College	Sewer	University	Professor	3 1st	278 00
1590	3338	Columbus	Paving	Lorain	Brevier	5 1st	3,736 10
1540	2544	Congress	Sewer	Woodland	159 ft. N. of Remington	3 2d	423 33
1163	3104	Congress	Curbing	S. Woodland	Woodland	1 1st	441 02
818	1351	Cornell	Paving	Euclid	Catwaba	5 4th	1,245 59
1638	2679	Courtland	Curbing	Bridge	Lorain	1 1st	1,393 39
1776	3340	Crawford	Paving	Hough	Genesee	5 1st	2,045 85
1880	3166	Creighton	Curbing	Perry	Chapel	1 1st	571 63
1545	2596	Cross	Sewer	Hill	Broadway	3 2d	180 66
1278	2180	Cross	Sewer	Hill	Berg	2 2d	325 00
1512	2730	Cross	Paving	Broadway	Berg	5 2d	1,470 76
1764	3368	Croton	Paving	Jackson	Case	5 1st	6,747 99
1870	3257	Cumberland	Sewer	Oakdale	Woodland Hills	3 1st	1,362 96
652	3006	Cuyahoga River	Dredging			1 1st	14,565 65

DEPARTMENT OF ACCOUNTS.

TABLE NO. 16—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1883.	Amount of Assessment.
				From	To			
1874	3314	Dana	Sewer	St. Clair	Superior	3	1	\$ 1,676 83
1557	2846	Davenport	Sewer	250 ft. E. of Clinton Prk.	Briggs	3	2	1,273 94
886	1717	Decatur Alley	Paving	Perry	Irving	5	3	640 74
1120	2033	Decatur Alley	Paving	Cross	82 ft. Southerly	3	3	1,327 65
1428	2680	Decatur Alley	Paving	Central	Cross	5	2	1,340 40
1865	3238	Decker	Sewer	E. Madison	Genesee	3	1	1,969 43
1617	2760	Dent	Sewer	White	N. End	3	1	592 66
1481	2540	Detroit	Sewer	Center	Kentucky	2	2	4,038 80
1640	3083	Dexter Place	Gutter Paving	Clinton	Franklin Place	2	1	537 78
1484	2349	Dodge	Sewer	Chestnut	Euclid	2	2	486 84
1122	2034	Dodge	Paving	Lake	Euclid	5	3	3,788 22
1834	3292	Douglas	Sewer	Payne	490 ft. S. of Perkins	3	1	1,427 30
1456	2663	Dunham	Paving	Euclid	Hough	5	2	1,957 90
1068	1936	East Madison	Paving	Euclid	Cedar	5	3	3,277 90
1515	2477	East Prospect	Sewer	E. Madison	Hiddings Brook	3	2	310 33
1730	3090	East Prospect	Sewer	Lincoln	Bolton	3	1	1,411 13
1436	2657	East Prospect	Paving	Wilson	Bolton	5	2	24,422 39

DEPARTMENT OF ACCOUNTS.

TABLE NO. 16—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1883.	Amount of Assessment.
				From	To			
1498	2775	East River	Repairing.....	40 ft. N. of Front.....	St. Clair.....	5	2	\$ 4,697 81
1854	3279	Edwards.....	Sewer.....	Central.....	Quincy.....	3	1	586 45
1064	1691	Ellsworth.....	Sewer.....	Woodland.....	Everts.....	3	3	866 66
1642	3064	Elm.....	Paving ..	Old River.....	West River.....	5	1	5,162 99
1928	3318	Emmet.....	Sewer.....	Jefferson.....	Marquardt.....	2	1	526 50
1806	3215	Emmet.....	Sewer.....	Literary.....	Jefferson.....	3	1	874 67
1688	3299	Emmet.....	Paving ..	Marquardt.....	N. End.....	5	1	1,476 38
1808	3231	Empress.....	Sewer.....	Farber.....	Fillmore.....	3	1	817 08
1778	3342	Euclid Alley.....	Paving ..	Brownell.....	Perry.....	4	1	2,438 96
1608	2847	Everett.....	Sewer.....	Payne.....	480 ft. S. of Perkins.....	3	1	1,701 48
1670	3243	Fall.....	Paving ..	Center.....	British.....	5	1	2,766 05
1826	3322	Fillmore.....	Sewer.....	Pearl.....	Empress.....	2	1	311 48
1690	3298	Fillmore.....	Paving ..	Pearl.....	Empress.....	5	1	633 12
1842	3280	Floyd.....	Sewer.....	Jackson.....	Fleming.....	3	1	120 17
1552	2623	Forest.....	Sewer.....	Broadway.....	Kingsbury Run.....	2	2	3,047 99
802	1500	Forest.....	Paving ..	Garden.....	Croton.....	5	3	7,876 53
1518	2580	Forman.....	Sewer.....	Ledyard.....	Tod.....	3	2	1,487 37
1281	2808	Fourth.....	Paving ..	Willson.....	Second.....	5	2	2,416 34

TABLE NO. 16—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installment	Installments of 1933.	Amount of Assessment.
				From	To			
1526	2517	Gallup.....	Sewer.....	Broadway.....	N. End.....	2	2	\$ 1,276 00
1646	2746	Gallup.....	Grading.....	Union.....	Regent.....	1	1	931 33
974	1989	Gaylord.....	Grading.....	Woodland Hills.....	E. City Limits.....	3	3	2,524 60
1434	2935	Genesee.....	Paving.....	Hough.....	Wade Park.....	5	2	3,509 87
1364	3089	Giddings.....	Paving.....	Euclid.....	Cedar.....	5	1	1,996 04
1730	3119	Giddings.....	Curbing.....	Quincy.....	Woodland.....	1	1	1,707 56
1862	3254	Goethe.....	Sewer.....	Hamm.....	Blanche.....	3	1	666 36
1809	3237	Goulding.....	Sewer.....	Woodland.....	S. Woodland.....	3	1	231 83
1618	2981	Goldsmith Court.....	Sewer.....	Florence.....	E. End.....	1	1	606 19
1667	2712	Grant.....	Curbing.....	Cedar.....	Central.....	1	1	1,007 49
1210	2640	Hamilton.....	Paving.....	Ontario.....	Wood.....	5	2	1,048 11
1648	2746	Hamilton.....	Curbing.....	Dodge.....	Case.....	1	1	6,973 41
1464	2982	Hamilton.....	Curbing (Additional).	Case.....	Marquette.....	1	1	866 31
1133	3297	Hamlet.....	Curb and Culvert.....	Broadway.....	120 N. of Broadway.....	2	1	1,100 26
1836	3253	Hamm.....	Sewer.....	Petrie.....	Doloff.....	3	1	1,435 56
1274	2148	Hancock.....	Sewer.....	Jersey.....	Penn.....	2	2	350 16
1420	2604	Harkness.....	Paving.....	Euclid.....	Hough.....	5	2	3,819 18
1619	2609	Harlem.....	Sew.T.....	Kirtland.....	Wilson.....	2	1	825 23

TABLE NO. 16—Continued.

G. R. Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1883.	Amount of Assessment.
			From	To			
1652	Harrison.....	Pave Gutters.....	Hill.....	400 ft. S. of Hill.....	2	1	\$ 896 36
1589	Herschel.....	Sewer.....	Literary.....	Seothan.....	3	1	1,917 33
1838	Harvard.....	Sewer.....	Broadway.....	Woodland Hills.....	3	1	1,873 61
1062	High.....	Paving.....	Ontario.....	Sheriff.....	1	1	520 38
1418	Hill.....	Paving.....	Commercial.....	Cross.....	5	2	2,328 71
1594	Hilburn.....	Paving.....	Euclid.....	E. Prospect.....	5	1	1,498 94
1586	Holton.....	Sewer.....	E. Madison.....	Woodland Hills.....	3	2	4,351 14
1426	Homewood.....	Grade and Culvert.....	Union.....	Morgan.....	3	2	1,890 90
1846	Homer.....	Sewer.....	Brunswick.....	Willson.....	3	1	389 56
1492	Hough.....	Sewer.....	Dunham.....	W. L. of S. & A. All.....	2	2	617 79
1844	Hollister.....	Sewer.....	Broadway.....	Track.....	3	1	658 71
1050	Hoyt.....	Sewer.....	St. Clair.....	L. S. & M. S. Ry.....	3	3	2,186 47
1444	Humboldt.....	Paving.....	Orange.....	313 ft. S. of Croton.....	5	2	1,992 06
1528	Huntington.....	Paving.....	Prospect.....	Central.....	5	2	1,683 55
822	Huntington.....	Paving.....	Euclid.....	Prospect.....	5	4	969 42
1584	Huntington.....	Paving.....	Superior.....	Euclid.....	5	2	2,452 24
710	Huron.....	Paving.....	Sheriff.....	Erie.....	5	4	2,820 84
1126	Huron.....	Paving.....	Euclid.....	Prospect.....	5	3	2,839 91

TABLE NO. 15—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	In Installments of 1898.	Amount of Assessment.
				From	To			
1620	2910	Inverness.....	Sewer.....	Becker.....	Hodge.....	3	1	\$ 470 53
1756	2954	Jay.....	Curbing.....	Pearl.....	Jersey.....	1	1	923 56
1621	2913	Jefferson.....	Sewer.....	University.....	Herschel.....	2	1	379 30
1543	2597	Jefferson.....	Sewer.....	University.....	Professor.....	3	2	306 00
1622	2882	Judd.....	Sewer.....	Brownell.....	Harmon.....	3	1	657 24
1124	2060	Kennard.....	Paving.....	Central.....	Scovill.....	5	3	4,077 25
1130	2061	Kennard.....	Paving.....	Scovill.....	Wood and.....	5	3	1,779 76
1517	2525	Kennedy.....	Sewer.....	Bolton.....	Oakdale.....	2	2	828 56
1279	2192	Keyes.....	Sewer.....	E. Madison.....	Edwards.....	3	2	440 00
1559	2598	Kindsvater.....	Sewer.....	Willson.....	Lyon.....	3	2	670 26
1074	2686	Kinsman.....	Paving.....	Willson.....	Woodland Hills.....	5	2	15,133 52
1684	3304	Kramer.....	Paving.....	Merwin.....	Sanders Alley.....	5	1	275 68
1623	2840	Lake.....	Sewer.....	Cass.....	Marquette.....	2	1	6,465 88
1537	2453	Lawn.....	Sewer.....	Gordon.....	Ridge.....	2	2	2,090 36
1686	2974	Lenox.....	Grading.....	Clark.....	C. C. C. & St. L. R. R.....	1	1	385 48

TABLE NO. 16—Continued.

d. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1893.	Amount of Assessment.
				From	To			
1866	3251	LeRoy.....	Sewer.....	Superior.....	Alley 750 ft. South.....	3	1	\$ 544 59
1541	2542	Lester.....	Sewer.....	Gallup.....	East End.....	3	2	1,116 22
1522	2476	Liberty.....	Sewer.....	Detroit.....	Franklin.....	2	2	310 50
1414	2496	Liberty.....	Paving.....	Detroit.....	Franklin.....	5	2	963 43
1542	2545	Light.....	Sewer.....	St. Clair.....	Varian.....	3	2	592 97
898	1574	Lincoln.....	Paving.....	Euclid.....	Cedar.....	5	4	1,283 42
1592	3100	Lincoln.....	Paving.....	Cedar.....	Quincy.....	5	1	3,796 97
1480	2387	Literary.....	Sewer.....	University.....	Herschel.....	3	2	490 00
1273	2146	Literary.....	Sewer.....	Professor.....	University.....	2	2	420 00
1416	2654	Livingston.....	Paving.....	Cedar.....	Central.....	5	2	1,216 46
1810	3236	Lockyear.....	Sewer.....	Hodge.....	Becker.....	3	1	217 31
1198	2284	Logan.....	Paving.....	Lamont.....	Euclid.....	5	2	2,108 46
1246	2726	Logan.....	Paving.....	Euclid.....	Cedar.....	5	2	2,035 71
1496	2384	Lorain.....	Sewer.....	Smith.....	Bradford.....	2	2	722 50
865	1577	Lorain.....	Paving.....	Pearl.....	Columbus.....	5	4	1,043 03
824	1666	Lorain.....	Paving.....	Geib.....	Henley.....	5	3	9,196 65
714	1188	Lorain.....	Paving.....	Ridge.....	Geib.....	5	4	2,785 40
1514	2516	Lyman.....	Sewer.....	Superior.....	Payne.....	2	2	2,092 25

TAB. F. NO. 16—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Final Installments of 1883.	Amount of Assessment.
				From	To			
1523	2518	Lyman.....	Sewer.....	Payne.....	Mason.....	2	2	\$ 1,613 67
1688	2873	Lyon.....	Grading.....	St. Clair.....	488 ft. N. of Superior.....	1	1	845 67
1688	3249	Lyon.....	Curbing.....	St. Clair.....	488 ft. N. of Superior.....	1	1	1,310 78
1524	2523	Magnet.....	Sewer.....	Broadway.....	Wilson.....	2	2	532 86
1156	136	Maivin.....	Sewer.....	Pearl.....	E. Limits S. D. No. 1.....	10	7	751 55
1504	2736	Marvin.....	Paving.....	Pearl.....	Rhodes.....	5	2	4,225 31
1440	2636	Mayfield.....	Paving.....	Euclid.....	City Limits.....	5	2	1,300 03
1852	3284	Mayflower.....	Sewer.....	Woodland.....	Orange.....	3	1	158 50
1799	3194	Meade.....	Sewer.....	Broadway.....	Track.....	3	1	1,197 92
1624	2408	Melrose.....	Sewer.....	Giddings.....	E. Madison.....	2	1	1,668 09
1811	3229	Melrose.....	Sewer.....	E. Madison.....	Genesee.....	3	1	1,343 73
1654	2713	Melrose.....	Curbing.....	Giddings.....	Genesee.....	1	1	2,335 24
1656	3284	Merwin.....	Re-paving.....	Superior.....	Center.....	5	1	2,629 01
1801	3195	Meyer.....	Sewer.....	Pearl.....	Scranton.....	3	1	268 68
1485	{ 2889 } { 2440 }	Miami Al.....	Sewer.....	Bolivar.....	Huron.....	{ 2 } { 3 }	{ 1 } { 2 }	255 93
1412	2667	Miami Al.....	Paving.....	Bolivar.....	Huron.....	5	2	478 81
1440	2662	Michigan.....	Paving.....	Canal.....	Ontario.....	5	2	2,943 77

TABLE NO. 16—Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1893.	Amount of Assessment.
				From	To			
1886	2711	Minnesota.....	Curbing.....	St. Clair.....	Superior.....	1	1	\$ 692 30
1486	2441	Minerva.....	Sewer.....	Hough.....	N. End.....	3	2	455 81
1525	2524	Montgomery.....	Sewer.....	Giddings.....	Parker.....	3	2	494 22
1244	2120	Myrtle Court.....	Sewer.....	Sawtell.....	West End.....	2	2	57 94
1483	2380	McKinstry.....	Sewer.....	Literary.....	490 ft. Northerly.....	3	2	337 50
762	1371	McLean.....	Paving.....	Carroll.....	Lorain.....	5	4	560 80
1812	3200	New.....	Sewer.....	Central.....	Quincy.....	2	1	861 04
858	1409	North Woodland.....	Sewer.....	Woodland.....	Woodland Hills.....	4	4	3,257 54
1410	2603	North Perry.....	Paving.....	St. Clair.....	Superior.....	5	2	1,180 35
1876	3311	Norwood.....	Sewer.....	St. Clair.....	Superior.....	3	1	2,010 51
1184	2286	Oakdale.....	Paving.....	Euclid.....	Cedar.....	5	2	1,750 67
1568	3101	Oakdale.....	Paving.....	Cedar.....	Quincy.....	5	1	2,909 47
1472	2668	Oak Place.....	Paving.....	Euclid.....	Prospect.....	5	2	650 56
1285	2106	Ocean.....	Sewer.....	Woodland.....	Bushnell.....	2	2	1,061 13
1832	3165	Oliver.....	Curbing.....	St. Clair.....	Superior.....	1	1	749 31
1138	2675	Orange.....	Paving.....	Perry.....	Humboldt.....	5	2	5,072 90

TABLE No. 16--Continued.

G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1893.	Amount of Assessment.
				From	To			
1468	2676	Orange	Paving	Perry	Cross	5	2	\$ 3,647 80
1840	3286	Oregon	Sewer	North Perry	Oliver	3	1	619 94
1582	3045	Osborn	Paving	Seovill	Woodland	5	1	1,719 78
1494	2478	Otis	Sewer	Woodland	Dell	2	2	638 58
1819	3216	Outhwaite	Sewer	Genetery	Dike	3	1	181 62
1860	3211	Pallister	Grading	Chard	Fleet	1	1	691 94
1290	2750	Payne	Paving	Muirson	Willson	5	2	20,478 90
1146	50	Pearl	Sewer	North Limits Brooklyn	South Limits Brooklyn	10	10	377 42
1149	117	Pearl	Paving	North Limits Brooklyn	South Limits Brooklyn	12	9	807 07
1758	3330	Pearl	Repaving	Walworth Run Bridge	320 ft. S. of Sackett	5	1	9,047 77
1625	2847	Percival	Sewer	St. Clair	Superior	3	1	1,178 11
1408	2835	Perry	Repaving	Broadway	Woodland	5	2	1,404 51
1501	2521	Platt	Sewer	E. Madison	Carr	2	2	1,208 30
1628	2886	Pramo	Sewer	Pearl	Scranton	3	1	455 33
1516	2473	Princeton	Sewer	Linwood	Hough	2	2	770 38
1760	3007	Princeton	Sewer	Hough	Euclid	3	1	1,546 11
1592	3301	Princeton	Opening	N. Line Fedrick Alley	Euclid	2	1	4,415 65

DEPARTMENT OF ACCOUNTS.

TABLE NO. 16—Continued.

G. R.	Orl.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1893.	Amount of Assessment.
				From	To			
1794	2955	Princeton	Curbing	Hough	Euclid	1	1	2,612 42
1404	2781	Prospect	Repaving	Ontario	Erie	5	2	5,560 75
1883	3259	Randolph	Sewer	Dolloff	Blanche	3	1	464 33
1072	1722	Raney	Sewer	St. Clair	Bliss	5	3	759 06
1150	200	Rhodes and Woodbridge	Sewer	Original Lot 55	Woodbridge	10	5	78 59
1762	2984	Richland	Curbing	Central	Quincy	1	1	1,053 39
1486	2723	Rockwell	Paving	Wood	Erie	5	2	2,241 73
1486	2961	Rockwell	Paving (additional)	Wood	Erie	4	1	358 68
1530	2732	Rockwell	Paving	Monumental Square	Wood	5	2	654 59
915	(1825) (1486)	Rowley	Sewer	Scranton	Jennings	4	4	810 71
1780	3119	Russell	Sewer	Beecher	Lexington	3	1	274 67
1126	2047	Russell	Paving	Lexington	Euclid	5	3	3,296 90
1187	2017	Sackett	Sewer	Pearl	Rhodes	3	3	1,786 31
1814	3201	Sage	Sewer	Lorain	Dennison	3	1	740 98
1664	3383	Sanders A1	Paving	Leonard	German	3	1	587 28
544	1621	Sawtell	Paving	Woodland	Julia	5	3	2,598 20

TABLE NO. 16—Continued.

G. R. Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1892.	Amount of Assessment.
			From	To			
1527	Scott	Curbing	Detroit	South End	1	1	\$ 2,774 28
750	Scranton	Paving	Paraffine	Clark	5	4	4,049 69
1627	Selden	Sewer	Clark	Storer	3	1	2,749 55
1680	Seneca	Sewer	Lake Erie	Superior	2	1	2,418 62
910	Seneca	Paving	Superior	Canal	5	3	1,361 21
1406	Seneca	Repaving	St. Clair	Summit	5	2	2,044 31
1503	Seneca	Paving	110 ft. N. of Stone's Levee	S. line of Stone's Levee	5	2	3,332 15
1314	Sewer and Water con-	nections East of	River		1	1	2,528 22
1314	Sewer and Water con-	nections West of	River		1	1	199 50
1628	Sheriff	Sewer	Bolivar	Eagle	1	1	541 81
1479	Shipherd	Sewer	Superior	560 ft. N. of Wado Park	3	2	1,411 79
979	Fibley	Paving	Case	Will-on	5	3	2,210 26
688	Sidewalks	Delinquent East of	River		1	1	7,319 57
686	Sidewalks	Delinquent West of	River		1	1	1,272 95
1838	Sheridan	Grade and Culvert	Carpenter	475 ft. S. of Roland	1	1	3,467 39
1746	Short Alley	Paving	Euclid	Huron	3	1	362 00
1764	Sixth	Paving	Willson	Norwood	5	1	1,972 76
1815	Slater	Sewer	Scovill	Outhwaite	2	1	360 00

DEPARTMENT OF ACCOUNTS.

TABLE NO. 16—*Continued.*

G. R. Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Numbers of Installments.	Installments of 1888.	Amount of Assessment.
			From	To			
1553	Smith.....	Sewer.....	Broadway.....	North End.....	3	2	\$ 422 86
1516	Solon.....	Sewer.....	Lake Erie.....	Superior.....	3	1	307 08
1140	Southern.....	Sewer.....	Quincy.....	Woodland.....	3	3	2,023 66
1454	South Woodland.....	Repaving.....	216 ft. E. of Lincoln.....	Woodland Hills.....	5	2	5,438 22
1248	Spangler.....	Paving.....	Euclid.....	917 ft. North.....	5	2	1,481 04
1465	Starkweather.....	Sewer.....	Pelton.....	South.....	3	2	1,702 56
1164	Sterling.....	Paving.....	Euclid.....	Prospect.....	6	2	553 13
1172	Sterling.....	Paving.....	Prospect.....	Cedar.....	5	2	1,888 21
1766	St. Clair.....	Paving.....	Willson.....	Becker.....	5	1	11,957 83
1629	Streator.....	Sewer.....	Cedar.....	Quebec.....	2	1	3,079 31
884	Streator.....	Paving.....	Euclid.....	Cedar.....	5	3	1,846 66
1402	Superior.....	Repaving.....	Water.....	Monumental Square.....	5	2	5,423 74
878	Swiss.....	Paving.....	Lorain.....	Clark.....	5	3	6,650 16
171	Wade.....	Sewer.....	Rhodes.....	Pearl.....	2	2	3,513 86
1817	Wade.....	Sewer.....	Rhodes.....	550 ft. Westerly.....	1	1	800 00
1536	Wade.....	Sewer.....	Pearl.....	Soranton.....	2	2	678 12
1500	Wade Park.....	Sewer.....	(Hiddings.....	(Hiddings Brook.....	2	2	547 02
1566	Walnut.....	Paving.....	Erie.....	Dodge.....	5	1	4,952 94

TABLE NO. 16—Continued.

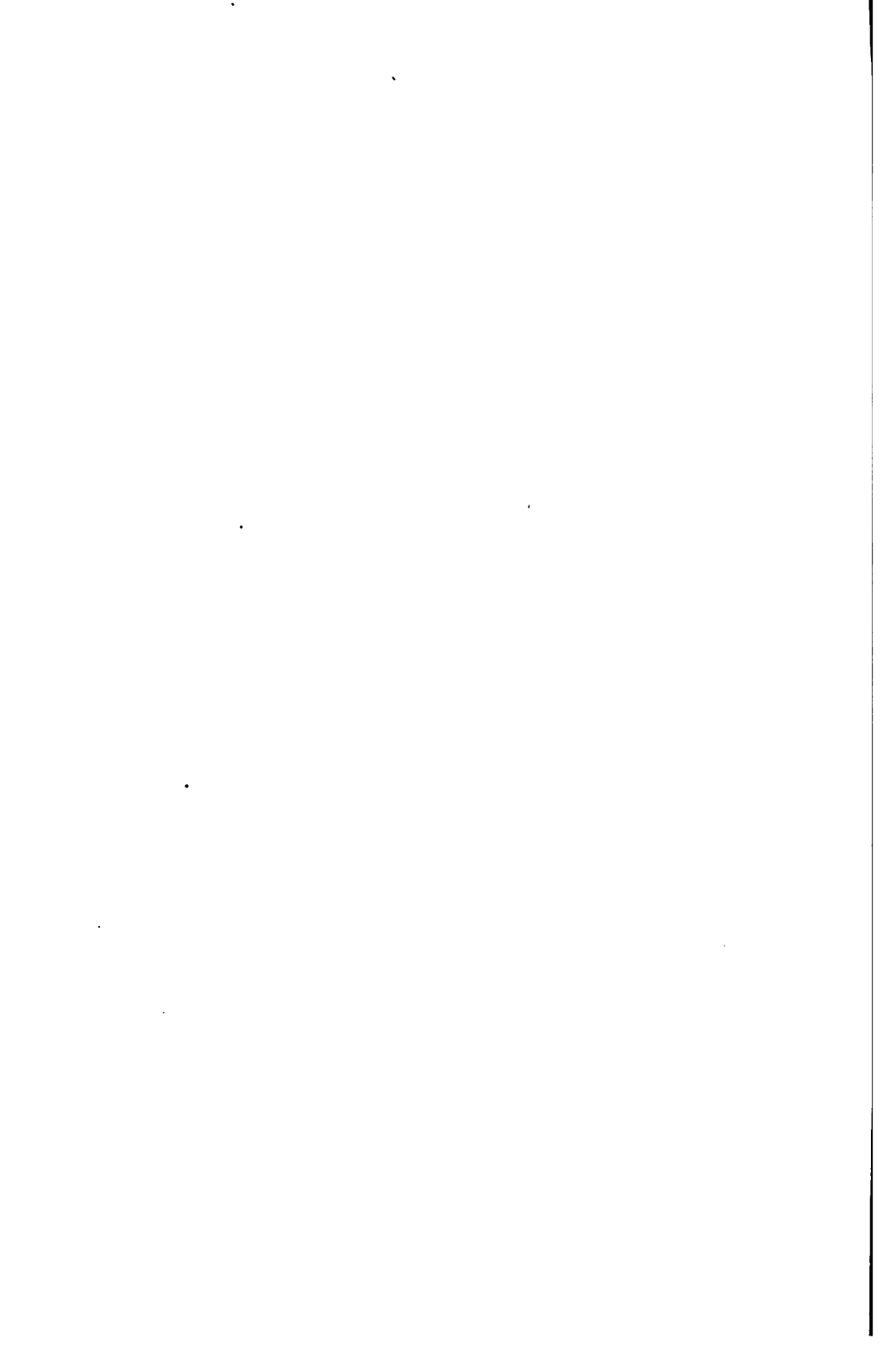
G. R.	Ord.	Name of Street.	Kind of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1903.	Amount of Assessment.
				From	To			
1054	1692	Walton	Sewer.....	Pearl	Pollock	3	3	\$ 3,405 27
1580	2622	Waring.....	Sewer.....	Superior	Payne	3	2	980 39
1856	3276	Wason.....	Sewer.....	Superior	Lake Erie	3	1	1,895 68
1768	3302	Wason.....	Paving	St. Clair	L. S. & M. S. R. R.....	5	1	4,445 44
1850	3283	Weckerling.....	Sewer.....	Hamm.....	Bianche	3	1	824 25
1192	2602	Wheller Place	Paving	Eagle	Central	5	2	423 39
1630	2762	White	Sewer.....	Willson	Norwood.....	3	1	1,722 64
570	1226	Willson.....	Paving	Euclid.....	St. Clair	5	4	19,979 33
768	1357	Willson.....	Paving	Woodland	Julia	5	4	4,694 26
1828	3230	Wood.....	Sewer.....	Summit.....	St. Clair	3	1	683 78
1488	2658	Wood.....	Paving	St. Clair	Superior	5	2	1,223 12
1282	2634	Woodland	Repaving	E. Madison	216 ft. E. of Lincoln	5	2	1,733 36
1770	3366	Woodland Hills	Paving	Fairmount	Norman	5	1	4,004 19
1872	3309	Woolsey	Sewer.....	St. Clair	Superior.....	5	1	2,551 20
1772	2944	Worley	Sewer.....	Broadway	Spafford	1	1	723 01
1275	2177	Zoeter	Sewer.....	Dunham.....	Giddings	2	2	1,637 25
		Total						\$650,027 30

TABLE NO. 17.
AMOUNT OF TAXES LEVIED IN EACH MAIN SEWER DISTRICT.

Number of District.	Value of Real Property.	Value of Personal Property.	Value of Mixed Property. R	Total Valuation.	Rate of Levy.	Amount of Tax.	Omitted in former years to be added.	Grand Total Amount of Tax for 1933.
1	\$ 6,027,400	\$ 1,135,210	\$ 40,545	\$ 7,203,155	3 Mills.	\$ 21,609 46	\$.....	\$ 21,609 46
2	8,776,664	1,800,861	111,345	10,688,870	½ "	5,344 43	.....	5,344 43
3	18,875,926	8,633,790	70,665	27,579,971	½ "	13,789 97	12 01	13,801 98
4	4,189,490	800,593	720	4,990,803	3 "	14,972 41	2 16	14,974 57
5	4,554,795	411,529	12,670	4,978,995	3 "	14,936 98	.....	14,936 98
6	.....	.....	.....	.....	.....	.....	.....	.....
7	10,051,794	1,526,045	81,295	11,659 134	3 "	34,977 40	.....	34,977 40
8	.....	.....	.....	.....	.....	.....	.....	.....
9	4,814,644	7,366,550	282,690	12,463,884	½ "	6,231 94	44	6,232 38
10	639,300	18,235	2,230	659,765	3 "	1,979 29	.....	1,979 29
11	2,470,610	292,975	21,135	2,784,720	2 "	5,569 44	.....	5,569 44
12	2,407,580	208,500	20,570	2,636,650	3 "	7,909 95	33 56	7,943 51
14	2,498,330	180,990	153,855	2,833,175	2 "	5,666 35	23 94	5,690 29
15	12,397,311	1,207,565	206,560	13,811,436	3 "	41,434 30	358 47	41,792 77
16	2,575,320	154,985	41,425	2,774,730	3 "	8,324 19	.....	8,324 19
17	2,385,590	313,980	4,035	2,703,605	3 "	8,110 81	.....	8,110 81
18	1,397,990	204,400	86,245	1,688,635	3 "	5,065 90	.....	5,066 55
19	272,710	6,515	.....	279,225	3 "	837 67	.....	837 67
Com St.	326,170	19,325	6,690	352,185	3 "	1,056 55	.....	1,056 55
	\$34,661,624	\$24,282,038	\$ 1,115,575	\$110,088,938		\$197,817 04	\$ 430 58	\$198,247 62

TABLE NO. 18.
RESULTS IN 1893.

Interest on general debt paid in 1893.....	\$ 302,439 00
Principal of general debt paid in 1893.....	515,000 00
Interest on special debt paid in 1893.....	169,248 28
Principal of special debt paid in 1893.....	237,425 00
Increase of taxable valuation of 1893 over 1892.....	5,235,775 00
Total par value of Sinking Funds.....	2,181,702 25
Net increase of city debt of all kinds in 1893.....	921,187 05
Sums paid in 1893 for permanent improvements, (see Tables Nos. 1 and 2:	
Bridge.....	\$ 16,384 45
Cemetery.....	1,151 31
Fire.....	23,307 84
House of Correction.....	375 00
Infirmary.....	11,858 37
Park.....	5,524 83
Police.....	35,688 11
Sanitary.....	161 00
Street.....	500 00
Water.....	310,531 99
Special improvements, (paving and repaving street , sewers, grading, etc.)	1,183,694 90
Total.....	\$ 1,589,177 80



SINKING FUND

COMMISSIONERS' REPORT.

REPORT OF THE
Sinking Fund Commissioners.

To the Honorable City Council of Cleveland :

GENTLEMEN:—The Sinking Fund Commissioners, in compliance with law, submit their report for the year 1893.

SINKING FUND OF 1862.

THIRTY-SECOND ANNUAL REPORT.

The gross income for the year is.....		\$ 61,881 92
The expense for the year is.....		650 00
Leaving the net income.....		\$ 61,231 92
1893.	RECEIPTS.	
Jan. 1...	Cash on hand as per last report	\$ 18,057 68
Feb. 3...	Semi-annual dividend on \$180,000 L. S. & M. S. Ry. } Stock 3%	\$ 5,400 00
Mar. 1..	Semi-annual interest on \$637,000 Cleveland City bonds 6%...	19,110 00
Apr. 1...	" " " 152,000 " " " 5%...	3,900 00
" "	" " " 25,000 " " " 4%...	500 00
" "	Interest on deposits.....	47 77
" "	Cleveland City 5% bonds matured.....	2,000 00
July 1...	Semi-annual interest on \$94,000 C. & A. Bridge bonds 3%...	2,820 00
	Interest on deposits.....	160 72
Aug. 2..	Semi-annual dividend on \$180,000 L. S. & M. S. Ry. } Stock 3%	5,400 00
<i>Forward</i>		

SINKING FUND—*Continued.*

RECEIPTS— <i>Continued.</i>			
1893	<i>Forward</i>		
Sept. 1.	Semi-annual dividend on \$637,000 Cleveland City bonds 6%..	\$ 19,110 00	
Oct. 2...	" " 214,000 " " 5%..	5,350 00	
" 2...	" " 25,000 " " 4%..	500 00	
" 2...	Cleveland City 5% bonds matured.....	3,000 00	
Dec. 9...	Interest on deposits.....	166 77	\$ 67,365 26
Total receipts and cash balance			\$ 85,422 94
DISBURSEMENTS.			
1893			
April 1.	For \$48,000 Cleveland City 5% bonds.....	\$ 48,000 00	
July 1...	" 2,000 " " 5% "	2,000 00	
" 1...	Accrued interest on same.....	25 00	
Aug. 20	For \$2,000 Cleveland City 5% bonds	2,000 00	
" 20	Accrued interest on same.....	33 33	
" 20	For \$4,000 Cleveland City bonds.....	4,000 00	
" 20	Accrued interest on same.....	66 67	
Sept. 1.	For \$8,000 Cleveland City Bonds.....	8,000 00	
" 1.	Accrued interest on same.....	166 67	
Dec. 9...	For \$20,000 Cleveland City bonds.....	20,000 00	
" 9...	Accrued interest on same.....	191 67	
" 31...	Expenses for the year.....	650 00	
	Balance cash on hand.....	289 60	
Total.....			\$ 85,422 94

The following items constitute the assets of the Sinking Fund of 1862, January 1, 1894 :

1,800 shares capital stock L. S. & M. S. R'y.....	\$ 180,000 00
Cleveland City six per cent. bonds.....	637,000 00
Cleveland City five per cent. bonds.....	231,000 00
Cleveland City four per cent. bonds.....	25,000 00
Chicago & Atchison Bridge Co., six per cent. bonds.....	94,000 00
Cash on deposit.....	289 60
Total assets.....	\$ 1,167,289 60

VIADUCT SINKING FUND.

FIFTEENTH ANNUAL REPORT.

The annual income for the year is\$39,034 06

1893.	RECEIPTS.		
Jan. 1.....	Cash on hand.....		\$ 45,954 70
" 28.....	Interest on deposit.....	\$ 125 45	
Mar. 1.....	Semi-annual int. on \$138,000 Cleveland City 6% bonds.....	4,140 00	
Apr. 1.....	" " 246,000 " 5% "	6,150 00	
" 1.....	" " 14,000 " 4½% "	315 00	
" 1.....	" " 75,000 " 4% "	1,500 00	
" 1.....	dividend on \$100,000 K. A. & G. R. R. stock....	2,950 00	
" 1.....	Cleveland City 5% bonds matured.....	7,000 00	
June 1.....	Semi-annual int. on \$104,000 Cleveland City 5% bonds.....	2,600 00	
" 1.....	" " 75,000 " 4% "	1,500 00	
July 1.....	Interest on deposits.....	38 01	
Sept. 1.....	Semi-annual int. on \$138,000 Cleveland City 6% bonds.....	4,140 00	
Oct. 2.....	" " 230,000 " 5% "	5,975 00	
" 2.....	" " 14,000 " 4½% "	315 00	
" 2.....	" " 75,000 " 4% "	1,500 00	
" 2.....	Cleveland City 5% bonds matured.....	11,000 00	
" 2.....	Semi-annual int. on \$100,000 K. A. & G. R. R. R. stock.....	2,950 00	
D c. 1.....	" " 104,000 Cleveland City 5% bonds.....	2,600 00	
" 1.....	" " 75,000 " 4% "	1,500 00	
" 9.....	Interest on deposits	735 59	57,034 06
	Total receipts and cash balance		\$ 102,988 75

VIADUCT SINKING FUND—*Continued.*

1893.	DISBURSEMENTS.		
Jan. 28.....	Payment into City Treasury on certificate of City Auditor, }	\$45,953 76	
Dec. 1.....	Payment into City Treasury on certificate of City Auditor, }	56,000 00	\$ 101,953 76
	Cash on hand.....		1,034 99
	Total		\$ 102,988 75

The following items constitute the assets of the Viaduct Sinking Fund January 1, 1894:

Cleveland City 6% bonds par value	\$ 138,000 00
" 5% " " 	332,000 00
" 4½% " " 	14,000 00
" 4% " " 	150,000 00
1000 shares Kalamazoo, Allegan & Grand Rapids R. R. stock, par value.....	100,000 00
Valley Railway 1st mortgage 7½% bonds	231,000 00
Interest coupons Valley Railway defaulted (sold but not paid for)	16,170 00
Cash on deposit.....	1,034 99
Total assets as shown by Ledger accounts	\$ 982,204 99
The Sinking Fund Commissioners also hold Valley Railway interest coupons defaulted for the year 1893 amounting to.....	16,170 00

Respectfully submitted,

H. B. PAYNE,
W. BINGHAM,
S. T. EVERETT,
W. EDWARDS,
JAMES BARNETT,

} *Sinking Fund*
} *Commissioners.*

CLEVELAND, O., January 5, 1894.

I hereby certify that the account contained in the foregoing statement, between the City of Cleveland and the Sinking Fund Commissioners, is correct and complete.

W. A. MADISON,
City Auditor.

THE STATE OF OHIO, }
CUYAHOGA COUNTY, } ss.

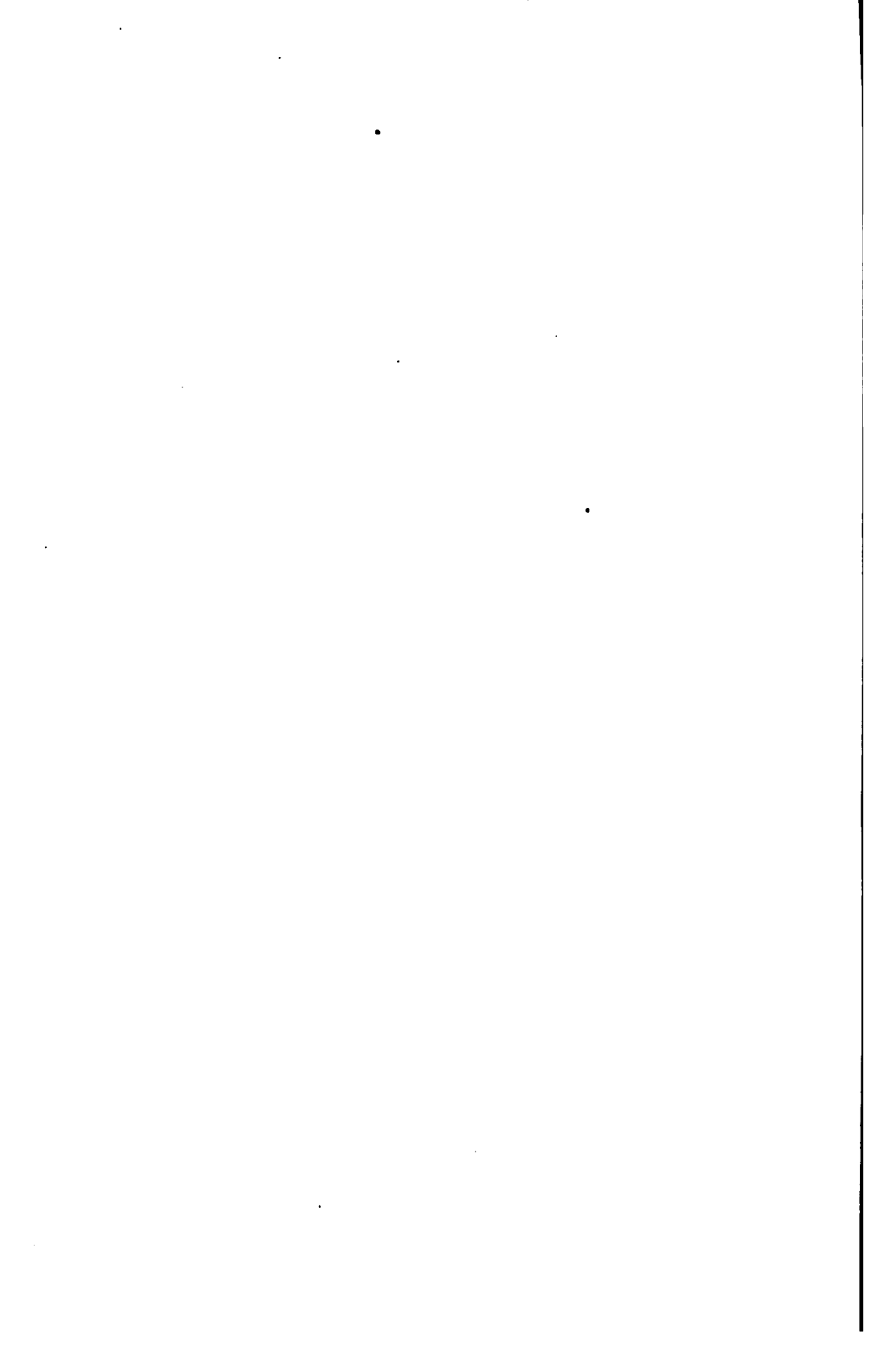
W. A. Madison, being first duly sworn, says that he is the duly appointed and qualified City Auditor of the City of Cleveland, and that the matters and facts set forth in the foregoing annual report are true as he verily believes.

W. A. MADISON.

Sworn to before me by said W. A. Madison, and by him
[SEAL.] signed in my presence, this 1st day of February, 1894.

FREDERICK GREEN,

Notary Public.



DEPARTMENT
OF
PUBLIC WORKS.

CITY OF CLEVELAND, O.,
Department of Public Works.

J. H. FARLEY, Director.

W. F. THOMPSON, Deputy Director.

P. J. COONEY, Secretary.

FIRST SUB-DIVISION :

M. W. KINGSLEY, Supt. of Water Works.

SECOND SUB-DIVISION :

ED. HART, Supt. of Streets.

THIRD SUB-DIVISION :

WALTER P. RICE, Chief Engineer.

OFFICE OF THE DIRECTOR OF PUBLIC WORKS, }
CLEVELAND, April 1, 1894. }

To the Mayor and Council of the City of Cleveland :

GENTLEMEN :—Herewith I respectfully submit a report of the Department of Public Works, being the annual report of said department for the year ending December 31, 1893, during which there were forty-eight advertised lettings of public work, at which fifteen hundred and eighty proposals were received, tabulated, calculated, and reported to the Council, with the name of lowest bidders in each case. Contracts were made in triplicate, as follows, viz: for grading, curbing, and paving, 69; for sewers and sewer work, 87; and for miscellaneous work, 37; a total of 193 contracts made during the year.

The reports, in detail, of the Chief Engineer, Superintendent of Waterworks, and the Superintendent of Streets are appended hereto and made part of this report.

PARKS.

Just after my entrance to office the parks of the city, and tools, chattels, and funds belonging thereto, which had heretofore been a part of this department, were transferred under law of the State to the Park Commissioners and by them properly received for.

IN THE MATTER OF WATER SUPPLY.

Viewed from a point of economical expenditure and best present and future service there are many perplexing problems.

The situation as it exists finds our rapidly growing city, with its increase in territory, population, and wants, limited to but one source of supply, the lake crib inlet, tunnel connections, and the West Side pumping plant. The high service reservoir system and the antiquated Cornish engines at the Fairmount pumping plant (the using of which was an expensive error which should be corrected with modern pumps in the near future) while performing the function of aiding to the extent of increased pressure on the high ground of the East End, and towards Newburg, by overcoming the friction of distant conveyance to these points, it must not be forgotten, has not in any respect increased the source of supply or lessened the danger to crib inlet, tunnels and pumping plant that lies hidden in the future.

The first immediate improvement demanded in the present system is to devise means of increasing the pressure and supply to the rapidly growing section of the city at and near the westerly limits of the city, south of Lorain street, where at times during the past year, at hours when the use was heavy, water could not be had in case of fire or drawn from spigots for ordinary household use. This area is not very large, but the possibility of future annexation of Brooklyn, and perhaps Linndale, and the interest the city has as a whole in the growth and development of this and other adjoining territory, whether annexed or not, has forced the consideration of plans for betterment, roughly outlined and estimated by Superintendent Kingsley as follows:

ESTIMATE No. 1.

This estimate includes the cost of a pumping station located at Ridge and Dennison avenues, equipped with two two-million-gallon pumping engines, boilers, etc., as per following:

One pumping station, complete with two two-million-gallon pumping engines, boilers, and all necessary equipments.....	\$31,600
4,400 feet of 12-inch pipe from Ridge to Lorain on Dennison.....	8,800
For 2,200 feet of 30-inch pipe for suction on Ridge avenue from Clark avenue.....	13,200
Add for contingency buildings, machinery, land, etc.....	10,000
	<hr/>
Total	\$63,600

ESTIMATE No. 2.

This estimate includes the cost of a pumping station located at Ridge and Dennison avenues, equipped with one two-million and one five-million-gallon pumping engine, boilers, etc., as per following:

One pumping station complete with one two-million-gallon pumping engine and one five-million-gallon triple-expansion pumping engine, boilers, and all necessary equipments..	\$42,600
4,400 feet of 12-inch pipe from Ridge to Lorain in Dennison.....	8,800
11,700 feet of 24-inch supply main to Pearl in Dennison.....	51,480
For 2,200 feet of 30-inch suction pipe in Ridge avenue from Clark.....	13,200
Contingency buildings, machinery, land, etc.....	10,000
	<hr/>
Total.....	\$126,080

ESTIMATE No. 3.

This estimate includes the cost of a 16-inch main in Harvard street from Broadway to Brecksville road; from Brecksville road in Harvard, Foster and Dennison avenues to Ridge avenue, 24-inch pipe, and in Dennison avenue from Ridge to Lorain, 12-inch pipe:

2,950 feet of 16-inch pipe in Harvard from Broadway to Brecksville.....	\$ 7,227 50
30,000 feet of 24-inch pipe in Harvard, Foster, and Dennison to Ridge.....	132,000 00
4,400 feet of 12-inch pipe in Dennison, from Ridge to Lorain.....	8,800 00
Add extra cost for crossing canal and Cuyahoga river.....	5,000 00
	<hr/>
Total.....	\$153,027 50

ESTIMATE No. 4.

This estimate includes estimate No. 3 and the greater proportion of estimate No. 2, which would combine the pumping station in use with Kinsman reservoir:

Estimate No. 3.....	\$153,027 50
Estimate No. 2 less price of 2,000,000 pump.....	\$4,000
Less 11,700 feet of 24-inch pipe in Dennison	51,480
	<hr/>
\$126,080 less.....	55,480 70,600 00
	<hr/>
Total.....	\$223,627 50

One of these plans, No. four (4), contemplates a subsidiary pumping plant, combining or connecting the southwestern as well as the southern part of the city generally with the present high service system, and the utilizing of the Kinsman reservoir for this whole section of the city. While the cost of this plan is much greater than the others, the advantage would be correspondingly greater.

First—Because the reservoir level would sufficiently supply the district during nights for several years to come, dispensing with operating expense of a full night force at the subsidiary pumping plant.

Second—Because when in the near future an East End source of supply and pumping plant is provided, it would go towards being a large part of a continuous circling belt of main supply line from the lake on the east around the city, on its highest lands, to the lake on the west, and thus provide for all probable future demands. The matter of an East End inlet supply from the lake cannot, with safety, be much longer delayed. During the year excursions along the lake shore have been made by Mr. Kingsley and myself with a view of determining some definite location for an inlet pumping plant, to be located at the lake front, without satisfactory conclusions. Following the line of thought that west of Doan street would be too near the heart of the city, it is found that east of this point railroad switch connection for fuel supply is about one-half mile away, the right of way for tracks would require the purchase of lands highly esteemed and beautifully improved as suburban homes, the marring of which with switch tracks would be stoutly resisted and which should be avoided if possible. To construct at the lake front with pumps nearly at the lake level, as must be the case for good service, requires expensive sea wall protection and very costly pile foundation work. To locate in the valley of a stream, if such a place could be secured, is not desirable on account of the high water floods. Another troublesome obstacle is the bold, high bluff character of the banks along the shore east of the city, resting upon seams of quicksand and slipping clay. The only escape from these objections is to locate a pumping plant at some point inland adjacent to the tracks of the L. S. & M. S. Ry., constructed perhaps in a circular pit connected by tunnel under land and water to inlet. I hope to more fully investigate this whole subject during the coming year and to have some careful estimates made to present

to the Council. In the meantime, I hope this subject will press itself to the attention of skilled and thoughtful minds and awake discussion that may perhaps develop some superior plan that has not been suggested or thought of.

While the question of an adjunct source of water supply cannot well be delayed much longer because of the fact that it will require perhaps three years at least to complete it, I may add that by enforcement of regulations restricting the use of water for sprinkling lawns, etc., in the hot summer months, to a fair and reasonable basis, there need be no fears of scant supply unless some unforeseen accident happens to the machinery at the supply house, or to the tunnel inlet.

For particulars and details pertaining to the operations of the waterworks division, I refer you to the detailed report of Superintendent Kingsley.

SECOND DIVISION—STREETS.

During the year there were many needed repairs made to streets that cost greater sums than are usual in this department—especially those made necessary by wash-outs caused by the great unprecedented flood in the month of May ; such as the Ackley avenue fill of 1,800 yards, Hoyt avenue over 1,000 yards of embankment, East Clark avenue 600 yards, and a retaining wall, filling, macadamizing, surfacing the roadway, and paving the gutters 2,600 feet in length at the Superior street fill in gully between Ansel avenue and Doan street. Upon this work the street department spent \$2,400, of which the "Little Consolidated" kindly donated \$400. In the same gully on Wade Park avenue, macadamizing, surfacing, and filling cost \$350, the "Big Consolidated" again kindly aiding by hauling free of charge 700 loads of cinders for top dressing.

Gutters were paved with old stone purchased from the contractors for repaving lower Seneca street, and old stone otherwise acquired by the city, on Taylor street hill, Hanover street hill, and the hill at Willey street. Old stone was furnished and delivered by the department for paving St. Clair street hill its full width, from River street to the dock line. The Detroit & Cleveland Transportation Company (steamboat company) kindly entered into the arrangement and paid for the laying of the same.

On this subject attention is called to the desirability of obtaining for use of the street department all the old Medina stone pave-

ment removed from streets that are repaved that can be gotten for any reasonable price, rolling mill slag and coarse gravel for street use being much more difficult to obtain than in years past. Formerly this material could be had for the hauling, now it must be purchased at expensive rates.

The total expenditure by the street department for the year was, in round numbers, \$139,000.00, about \$9,000 more than during the previous year. The number of streets worked by the department in excess of the number worked during the previous year was 114. Prompted somewhat by the cholera scare, more than usual attention was paid to alleys; every alley in the city was cleaned once last summer, and more than half of them twice, a performance never before undertaken.

An honest effort was made to elevate this department from its usual standard of a rest for the infirm and a source of patronage to political dependents, with good results from a business point of view, but with no little disaster to the popularity of the determined and independent superintendent of streets.

An agreement made between the property owners of South Dille and my predecessor, whereby the former paid to the city a contribution of \$300 to be expended with an amount furnished by the city for a culvert and fill at the foot of that street, was in some manner lost track of—their money was absorbed into the general street fund and not accounted for to the contributors by the performance of the work. On proof of the matter presented by Messrs. Ward, Farr, and others, the superintendent of streets made good the city's obligation, put in an iron pipe culvert, and placed the streets in condition to the satisfaction of all concerned.

The pernicious and unbusiness-like method heretofore prevailing, of compelling street railways and other corporations to pay direct to the persons appointed and charged with supervision of repairs made to street pavements by these companies, broken by them in the operation of their affairs, has been stopped.

The cost of such supervision is advanced and made a charge on the street fund, and collected back through the Auditor's office and paid into the treasury, as it should be, even though it does disconcert the monthly appropriation for street purposes and have the effect of showing on paper an apparent increased expenditure by the department that does not exist in fact.

For full particulars as to the operations of the street department you are respectfully referred to the report in detail of Mr. Edwin Hart, superintendent of streets.

THIRD SUBDIVISION—CHIEF ENGINEER'S DEPARTMENT.

Under this subdivision there was probably more work done during the year than ever before in the city's history.

The expenditure for work under the direction of this division was \$1,475,383.37, double that of the preceding year.

There were 18.67 miles of paving under contract during the year, involving fifty-one streets. Twenty-four were of Medina dressed block sand stone; two of Medina "common" stone; fourteen of paving bricks all filled with mineral tar pitch; and three streets paved with asphalt sheet laid on cemented broken stone concrete.

Superior street, from the Square to Water street, was paved with Medina dressed block upon a foundation of hydraulic cement concrete. The stability of this pavement will be watched with interest, being in a situation subject to great use and the first stone pavement in the city with a concrete subfoundation.

I am very favorably impressed with the brick pavements laid during the year, and believe that for light traveled, cross-town, and residence streets they will prove to be entirely satisfactory.

If constructed upon a four or five inch hydraulic cement concrete foundation good paving brick will give good results; as good, if not better, considering the cost, than any material that has been used on streets of the above named character. A brick pavement thus constructed is undoubtedly a better investment than asphalt, which will rot or disintegrate if water be permitted to stand on it in the gutters, or if much sprinkled, even though it get no use, which certainly will not be the case with brick.

Pavement work prepared for the year 1894 embraces twenty-nine streets, to which should be added eleven under contract and not finished, forty in all for the year 1894, to cost the estimated sum of \$642,957.28.

Fourteen streets were graded or graded and curbed during the year. Unless in special cases, for the purpose of drainage, the simple grading and curbing of a street is a poor investment; all streets that are sewered should be paved; the expenses of grading and curbing only, in such case, is practically so much wasted.

Specifications for stone paving have been ordered materially changed for the ensuing year by increasing the minimum length and width to $3\frac{3}{4} \times 8$ inches. There is no good reason why a paving stone, unless for making a closure against the curb or street car track, should not be as long as an ordinary brick and every reason why it should. Many thousand of dollars have been lost in the value of old stones taken up and removed during the year simply because they were not of sufficient substance when originally laid, not so much because they were worn out, but that they were never much better than miserable spalls in size and shape.

SEWERS.

Methods of designing and specifications for construction have been materially changed for the ensuing year. These changes will undoubtedly result in better work, for the details of which you are referred to the Chief Engineer's report.

One of the most exasperating sources of expense is the constant repairs made necessary by breaks in sewers. Too much care cannot be bestowed upon quality of material and workmanship entering into the construction of sewers.

Many complaints were made by citizens to this department during the year against odors thrown off through perforated, ventilated manhole covers. Our people should get acquainted with the fact that it is better and less dangerous to health to thus ventilate sewers than to have the generation of noxious gases confined and compelled to seek escape through the connections within their dwellings.

There was but one case of asphyxiation by sewer gases to men employed at sewer cleaning and repairing during the year, and that did not have serious or lasting effect. During the year about (14) fourteen miles of main and local sewers were built at a cost of \$317,272.40, and 13.21 miles are designed to be constructed during the coming year.

At great expense of time and money, plans for a sewer in Walworth Run from Gordon avenue to the river, 13,400 feet, were perfected and adopted. For various reasons—insufficient taxable area to raise sufficient funds, conflict of opinion as to how it should be paid for, litigation involving the tax for creating and opening a street on the line of the creek in the valley, etc.—nothing has been accomplished. Perhaps it would be well for the city to abandon the

effort to establish a street and seek to appropriate the right of way to locate and construct a sewer only, leaving to the future and the owners of the now practically worthless property the solution of the problem of their own salvation and advantage. The construction of this sewer would be an improvement of the greatest value and importance to a vast area and convert to exceeding valuable use an immense amount of waste and worthless land, besides removing a breeder of sickness and pestilence.

Some years ago, when enjoying the honor of another official position, I called attention to our method of levying district sewer taxes which appeared to me then, as it does now, unjust to say the least; buildings, stocks of merchandise, tools, factories, the ownership of vessels, cash on hand or on deposit, household goods, stocks, bonds, mortgages, etc., etc., placed in a district add absolutely nothing to its drainage area—or its capacity for receiving or retaining water. As a rule the areas that need the benefits of main sewers for surface drainage the most are the least improved, consequently of less value; being of less value they are on the tax duplicate for less and yet for this fact when taxed under our methods for drainage purpose these areas which are to be benefited the most are taxed less and the improved area which is benefited less is taxed more.

District sewer tax should, in my judgment, be levied on the basis of the superficial drainage area of the district. The solution is to find the number of square feet of area including streets and other public property to be drained, and tax each holding for the number of square feet possessed. The public will then bear its fair share of tax also. This conclusion is not based on the fallacy of "single tax" theories that cannot be worked out logically to relieve the masses that compose social organization from the burdens of social organizations, but is based on the unchangeable given surface subject to water fall and water retention that is to be benefited by a system of surface drainage. The taxation for local sewerage by the levy of so much per foot front on abutting property is, for the purpose of local sewerage, fair. Why an unjust system of district taxes should be maintained is an open question.

HARBOR.

Improvements in the river channel are imperatively needed. The bend immediately above Seneca street bridge, called Collision

Bend, can be very materially improved by cutting off the point that protrudes out into the channel some twenty-five or thirty feet beyond the defined proper dock line—now and for years past in the use and possession of private parties. This much at least should be recovered to the use of navigation, and I recommend that the law and public works departments be authorized by the Council to take, immediately, the necessary steps to recover this valuable channel space to the use of navigation.

The channel should also be improved by straightening, widening, and deepening at various points, at least as far up stream as what is known as the Grasselli Chemical Works. I hope to be able, with the funds on hand, to at least deepen the channel to this point during the season of 1894 sufficiently to admit of the passage of the fireboats, so as to extend protection to the important interests now beyond this means of protection from loss by fire.

I take issue with my esteemed and able predecessor in his opinion expressed in the report for 1892, wherein he says, "Deep water dockage I consider impracticable in the main river." There is nothing impracticable and no engineering impediments in the way to prevent the deepening, widening and straightening of the river channel so as to admit any vessel that can cross the natural barriers in the Detroit and Sault St. Marie's river from passing up the Cuyahoga River to the Chemical Works. In fact, the only obstacle to overcome in reclaiming this valuable use of the river is the one item of expense, which when compared with lake front projects and the loss that would ensue by abandoning river improvements, is decidedly in favor of river improvements. To divert public funds to artificial harbor work in advance of river improvements is open to the just criticism of unfairness to a large tract of land running through the heart of the city that has for many years borne its full duplicate share of taxation and annual dredging tax without just and adequate returns, the proper improvement of which would undoubtedly add large taxable value to the grand duplicate.

BRIDGES.

Necessarily our city will always be encumbered with the maintenance of bridges—an item of constant expense that will increase rather than diminish.

The bridge fund should be kept in sufficient strength to enable the department to keep the bridges well painted and in constant good repair.

A new bridge must be constructed over the river at Columbus street the coming season, also over the Valley Railway tracks at Lime street, also over the same tracks at Jefferson street.

The day is not far distant when there will be cause for the consideration for the construction of a viaduct and bridge to connect with St. Clair street and the present Superior street Viaduct. A break that would throw the draw of Superior street viaduct out of commission for any great length of time (a break that is bound to come sooner or later) will be a serious inconvenience to the great and growing population of the West Side and a serious detriment to the business interests of the whole city.

For further information on the important subject of bridges, I refer you to the comprehensive report of Chief Engineer Rice.

LIGHTING.

The increase in gas and vapor lamps during the year was 638, and the increase in the number of electric lights was 42.

The total cost of street lighting for the year, including cost of new posts, fixtures, etc., was \$185,317.61, an increase of \$12,814.85 over the year 1892, due to increase in lights.

On my entrance to office in April last, I found that the vapor lights were not in accordance with specifications and contract, which was so drawn that there were great difficulties in the way of fully protecting the city's rights, and compromise settlements were made with the contractors, which effected a reduction and saving to the city of \$1,789.17.

The contract for electric lighting was so framed that there was no practical means of knowing positively whether it was complied with or not.

The specifications for both vapor and electric lighting for the year 1894 have been so changed and constructed that the city is enabled to determine what is being furnished, and will pay on that basis only.

The policy of the department is to retard increased expense, which is caused by changing from gas to electricity, until such times as all the streets in the outlying section of the city are furnished

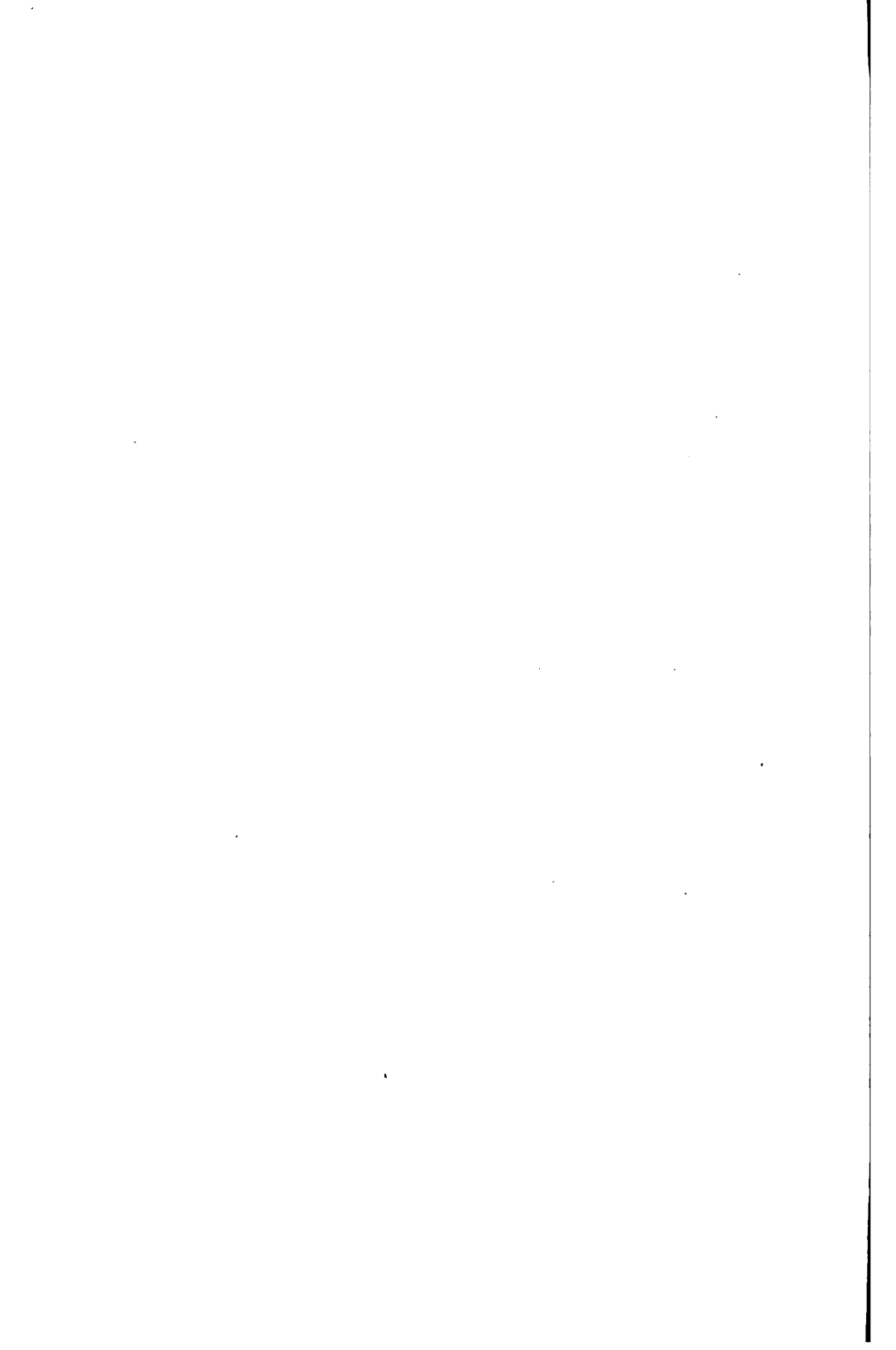
with light of some kind, either gas or vapor To carry out this policy, which in my judgment is but just to those that pay tax and have no light, it has been an unpleasant duty to report adversely on many resolutions calling for electric and displacing of gas lights.

To give the sections referred to light, this policy, considering the funds available, must be adhered to during the year 1894. Electric lighting, while it may be superior, is still far more expensive than gas lighting at the price the latter is furnished in this city. The quality of the gas furnished has been tested by Gas Inspector Hobbs and reported upon in every instance as fully up to the standard required by ordinance.

In the matter of looking after matters pertaining to electric lighting, wires, etc., this department is under obligations to the efficient and obliging city electrician, Mr. Hoag, whose service has also been frequently called upon to solve problems bearing upon what is called electrolysis, and its destroying effects on water pipes and connections, an evil that the city has not been very much afflicted with up to this time, although a few cases have come to our attention.

A full set of tables showing details of the various matters prepared by the efficient heads of various divisions and subdivisions of this department are herewith presented. Respectfully submitted.

J. H. FARLEY,
Director of Public Works.

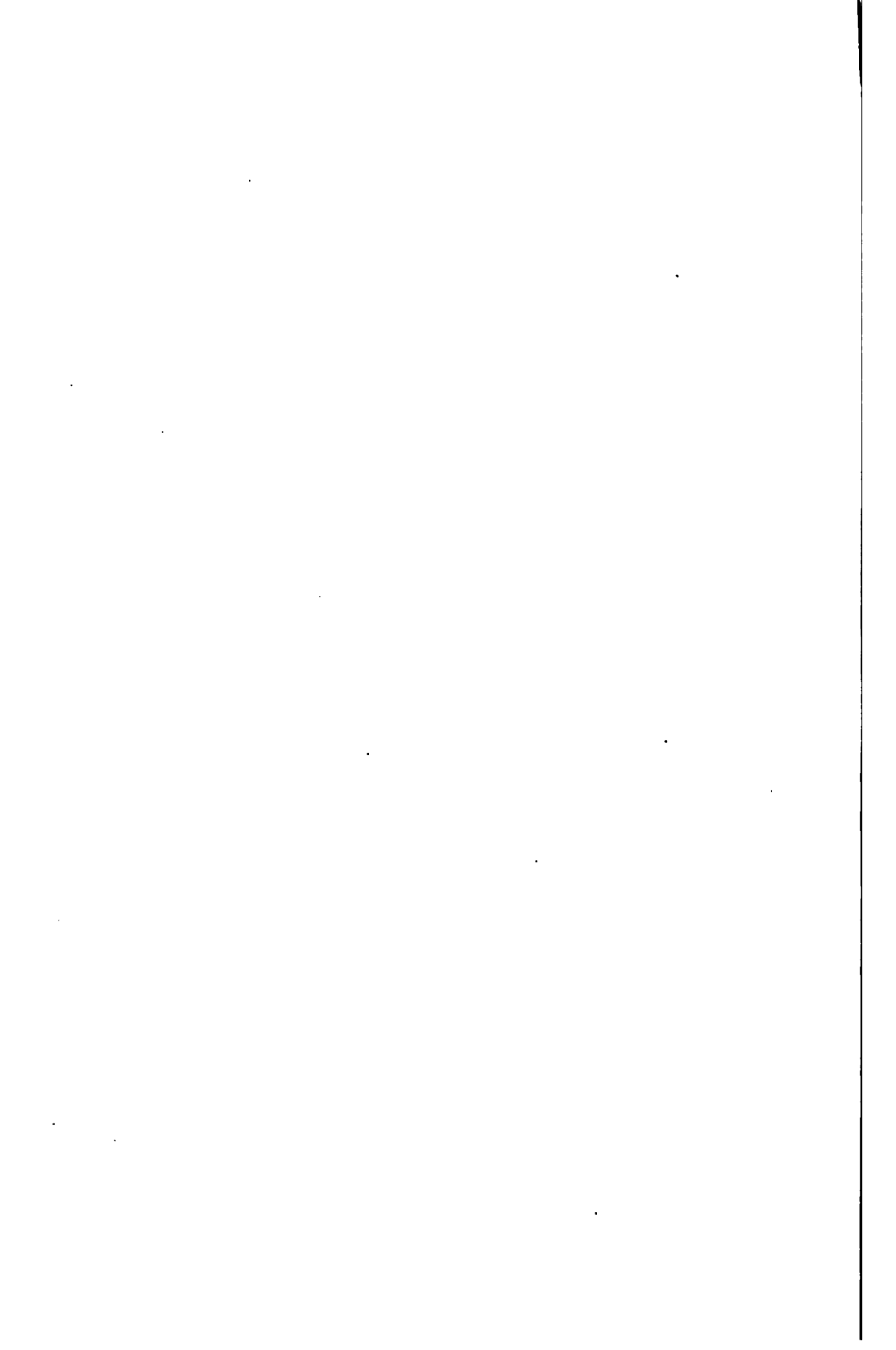


Department of Public Works,

FIRST SUB-DIVISION.

WATER WORKS.

REPORT OF SUPERINTENDENT.



THIRTY-EIGHTH ANNUAL REPORT UPON THE
CONDITION OF THE WATER WORKS;

BEING THE THIRD ANNUAL REPORT OF THE FIRST SUB-DIVISION
OF THE DEPARTMENT OF PUBLIC WORKS.

Hon. J. H. Farley, Director of Public Works :

SIR:—The following report, together with tables relating to the conditions of the first sub-division, is herewith submitted.

RECEIPTS,
FOR THE YEAR ENDING DEC. 31, 1893.

For water from assessments.....	\$ 304,188 62	
" " meter measure.....	242,401 91	
" " miscellaneous sources.....	4,047 52	\$ 550,638 05
Less returned water rents.....		2,010 47
For 2,962 connections to main pipe at \$5.00 each.....	14,810 00	548,627 58
For extra curb cocks, boxes, etc.....	1,428 10	16,288 10
From persons for laying water pipe.....		10,648 48
On account of pipe extension	10,505 46	
" general repairs.....	246 78	
" water meters	29 01	
" general expense.....	1,058 34	
" West Side pumping house.....	125 00	
" Fairmount reservoir.....	10 00	
" high service.....	10 00	11,984 59
For postage, fines, etc.....		214 20
For Water Works bonds.....	200,000 00	
For interest and premium on Water Works bonds.....	8,257 01	208,257 01
Cash in City Treasury January 1, 1893.....	224,738 12	
Cash in office January 1, 1893.....	1,009 63	225,747 75
Total		\$1,021,717 71

DISBURSEMENTS,

FOR THE YEAR ENDING DEC. 31, 1893.

On account of pipe extension.....	\$ 219,582 45	
" boiler and new boiler house.....	15,350 04	
" track and new track scales.....	2 028 38	
" miscellaneous construction.....	8,982 12	\$ 245,942 99
" water meters.....		7,178 80
For corporation stops, boxes, and tapping water mains.....		15,096 22
On account of general expense	40,446 65	
" general repairs.....	8,248 00	
" West Side pumping house expense.....	85,004 40	
" West Side pumping house repairs.....	8,664 74	
" high service reservoir expense.....	2,462 57	
" Fairmount pump house and reservoir expenses.....	7,827 69	
" Fairmount pump house repairs.....	483 19	153,137 24
" new Worthington engine.....		43,000 00
" crib repairs.....		2,961 00
Paid sundry creditors		11,272 00
Paid interest on Water Works bonds.....		95,150 00
On account returned water rents by voucher.....		1,574 54
" Water Works bonds refunded.....		200,000 00
Cash in City Treasury January 1, 1894.....	244,924 42	
Cash in office January 1, 1894.....	1,480 50	246,404 92
Total		\$1,021,717 71

As shown in the foregoing, for the year ending December 31, 1893 :

The receipts for water were.....	\$ 547,053 04
The expense of operating the Department after deducting credits to the various accounts was.....	153,292 04
Leaving a surplus, (available for the enlargement of the works and the payment of interest,) of.....	\$ 393,761 00

LEDGER BALANCE DECEMBER 31, 1893.

DR.		CR.	
Cash.....	\$ 1,480 50	Water rents	\$ 4,804,086 12
City Treasury	244,924 42	Bonds outstanding	1,775,000 00
Interest and discount	566,285 19	Bonds redeemed.....	925,000 00
Construction	6,628,518 07	Sundry creditors	34,778 19
City of Cleveland	36,781 87		
Water meters.....	117,894 26		
New Worthington engine	43,000 00		
Total	\$ 7,638,874 31	Total.....	\$ 7,638,874 31

The revenue from water rents, the operating expenses and repairs, and the balance to the credit of water rent after deducting such expenses from the introduction of lake water into the City until the present time, is shown by the following table.

Years.	Gross Receipts.	Operating Expenses.	Repairs.	Net Earnings.
1856 to 1876	\$ 1 127,788 02	\$ 426,564 16	\$ 98,656 37	\$ 602,567 49
1877	152,794 68	50,571 46	20,673 86	81,549 86
1878	160,125 70	47,183 44	22,453 91	90,488 35
1879	182,173 33	44,616 59	11,182 61	126,374 13
1880	202,377 92	47,618 76	8,296 13	146,463 03
1881	233,981 71	56,430 19	8,586 07	168,965 45
1882	248,879 06	57,857 47	7,835 56	183,186 03
1883	274,614 15	61,617 58	11,583 24	201,403 33
1884	296,392 60	66,196 41	9,470 48	220,725 71
1885	317,661 06	65 150 73	55,498 35	197,011 98
1886	353,191 85	77,582 32	8,034 44	267,575 09
1887	392,376 49	82,354 76	7,561 35	302,460 38
1888	401,775 40	85,445 92	20,950 10	295,379 38
1889	448,497 62	89,831 40	11,546 56	347,119 66
1890	502,954 11	97,630 45	10,716 26	394,607 40
1891	544,948 19	112,839 37	12,234 39	419,874 43
1892	597,002 45	116,484 01	15,935 02	464,583 42
1893	547,053 04	133,181 89	20,110 15	393,761 00
Totals.....	\$ 6,984,587 38	\$ 1,719,156 91	\$ 361,334 35	\$ 4,904,096 12

The following is a schedule of property belonging to the Water Works Division, Department of Public Works, December 31, 1893.

Lake crib, and lake and land tunnel No. 1.....	\$ 510,026 00
Lake and land tunnel No. 2.....	325,549 00
	-----\$ 835,575 00
River tunnel.....	30,428 00
Engine house grounds on Division St., 5¼ acres with aqueducts, &c.....	67,795 00
Two engine and boiler houses on Division street.....	277,109 00
Electric light plant.....	157 00
Six compound duplex pumping engines and boilers; combined daily pumping capacity, 80 million gallons.....	415,330 00
383 miles and 3,173 feet of water pipe from 3 inch to 36 inch diameter, 4,336 hydrants and 8,194 stop gates.....	4,268,584 00
Water meters.....	111,060 00
Fairmount reservoir and grounds, 20 acres.....	401,125 00
Kinsman reservoir and grounds, 18 acres.....	142,716 00
Kinsman reservoir, keeper's residence.....	1,200 00
Fairmount pumping station, engine house and grounds, 1¼ acres, one pair Cornish engines, engineer's and fireman's residences, &c.....	204,769 00
Office furniture, engineering instruments, maps, tools, supplies, pipes, specials, valves and hydrants at store room.....	10,000 00
West Side pumping station, small engine, coal, pipe, specials, miscel- laneous supplies, tools, &c.....	5,190 00
Fairmount store room, tool house, pipe, specials, valves, &c.....	3,361 00
West Side reservoir, pipe and specials.....	1,630 00
Kinsman reservoir, tools, pipe and specials.....	300 00

Total.....	\$6,776,329 00

FOR THE YEAR ENDING DECEMBER 31st, 1893.

The following is a statement of receipts in detail from persons for work performed and material furnished, and from other sources, not including water rents, as entered in voucher register of accounts receivable:

From Whom.	For What.	
Northern Ohio Paving & C. Co.....	Repairing pipe on University St....	\$ 23 62
Neracher Hill Sprinkler Co.....	4 in. connection on Hamilton St....	46 26
Cleveland Petrolatum Co.....	4 in. connection on Pearl St.....	63 78
Cleveland City Cable St. R. R. Co.....	Extra labor on pipe under track....	36 50
Columbia Elevator Co.....	4 in. connection on South Water....	74 06
Dewstoe & Schneider.....	3 in. connection on Superior St.....	104 83
J. H. Van Dorn Iron Works.....	Fire hydrants { 3 Manning @ \$15.00 1 Crane @ \$27.50....	72 50
Dewstoe & Schneider.....	2 in. connection on Spring St.....	30 61
F. A. Wadsworth.....	2 in. connection on James St.....	28 32
H. Benhoff.....	One 3 in. Manning hydrant.....	15 00
Department of Fire.....	6 in. fire pipe on Seneca St.....	1,060 55
Smith & Connors.....	3 in. connection on Washington St.	24 28
Daykin Bros.....	Repairing pipe on Erie St.....	7 23
F. A. Wadsworth.....	2 fire hydrants.....	55 00
Dept. of Public Works, Engineer's Dept.....	Cutting pipe on So. Woodland.....	60 80
Hill Clutch Works.....	3 in. connection on Waverly.....	59 17
McCarthy & Seager.....	1 piece of pipe 7 1/4 lbs., @ 1 1/4c.....	10 71
Brown Holsting & Conveying Co.....	4 in. connection on Hamilton St....	267 28
McIntosh-Huntington Co.....	Two 6 in. valves.....	21 50
Trunk & Feller.....	2 in. connection on Broadway.....	31 56
S. N. Pentecost.....	82 loads of earth @ 5c.....	4 10
Smith & Connors.....	2 in. connection on Ontario St.....	29 44
Smith & Connors.....	{ 3 in. connection on Willson and } { Scovill.....	59 86
People's Gas Light Co.....	3 in. connection on Old River St....	39 30
Cleveland Steel Casting Co.....	Laying 616 ft. pipe in grounds.....	490 77
Brooklyn Village.....	Testing meter.....	1 35
Barrett Brewing Co.....	4 in. connection on West River St.	29 96
Woodland Ave. and West Side St. R. R.....	3 in. connection on Washington St.	37 08
Strong, Cobb & Co.....	Repairing connection on Long St.	17 50
Department of Fire.....	Fire pipe on Huron St.....	1,004 29

From Whom.	For What.	
Department of Fire.....	Fire pipe on St. Clair St.....	\$ 826 38
H. Benhoff.....	Piece of pipe 214 lbs., @ 1½¢ per lb.	3 21
Chafer & Becker.....	One 3 in. valve.....	5 50
C. C. C. & St. L. R. R.....	Repairing pipe on Front St.....	8 10
L. H. Severance.....	Repairing meter.....	5 80
Theurer & Norton.....	Filling ice pond on Rhodes Ave.....	15 45
Peck, Stow & Wilcox Co.....	Laying 3 in. pipe on Seneca St.....	120 06
Woodland & West Side St. R. R.....	Repairing pipe on West River St...	18 72
United States Salt Works.....	4 in. connection on Madison Ave...	22 35
A. B. Hall.....	Filling skat'g rink on Franklin Av.	13 20
C. L. Marohe.....	Filling Skat'g rink on Haltnorth...	3 00
H. M. Case.....	Old galvanized pipe.....	72 00
Gibson & Price Lead Co.....	4 in. connection on St. Clair St.....	149 95
Eliza and John Stanley, and Chas. Seabrook	{ 6 in. water pipe on Verona and }	825 00
Dept. of Public Works, Engineer's Division	{ Bragg Sts..... }	
Geo. J. Schmitt.....	Repairing sewer & pipe on Erie St.	104 63
Geo. J. Schmitt.....	One piece of 16 inch pipe	1 02
Smith & Connors.....	Repairing valve Crawford block...	9 36
The Upton Nut Co.	Repairing leak on Scranton Ave...	14 56
Standard Oil Co.....	4 in. connection on Champlain St	64 42
Cleveland City Cable R. R. Co.....	Flushing sewer.....	29 33
The National Refining Co.....	{ Repairing 2 in. connection on }	11 50
Daykin Bros.....	{ Atlantic St..... }	
H. Sacheroff.....	4 in. connection on Erie St	123 93
H. Sacheroff.....	Old oil barrels.....	20 80
Cleveland & Pittsburgh R. R. Co.....	{ Repairing 3 in. connection on }	19 47
Pickands, Mather & Co.....	{ Lawrence	
H. Sacheroff.....	{ Lease of dock, Dec. 1st, 1892 to }	600 00
H. Sacheroff.....	{ Dec. 1st, 1893..... }	
James W. Stewart.....	Old oil barrels.....	6 00
Dewstoe & Schneider.....	6 in. water pipe on Hamden St.....	585 00
Dewstoe & Schneider.....	2 in. connection on Meadow St.....	22 71
Dewstoe & Schneider.....	2 in. connection on Sheriff St.....	38 55
Kennedy Bros.....	Repairing meter on Detroit St.....	2 65
L. H. Severance.....	Repairing meters on Seneca St.....	3 05
H. Iberle.....	Repairing meters.....	80
Haber Bros.....	4 in. connection on Prospect St.....	121 23
United States Baking Co.....	4 in. connection on Central Ave...	86 06
F. C. Goodman.....	6 in. water pipe on Clark Ave.....	312 50
Dettlebach Stove Co.....	3 in. connection on E. River St.....	64 66
Department of Charities, etc.....	6 in. pipe in Infirmary grounds....	57 88

From Whom.	For What.	
The Brown Hoisting & C. Co.....	Repairing Fire hydrant.....	\$ 4 75
A. E. Koblitz.....	2 in. connection on Ohio St.....	14 75
Dept. of Public Works, Engineer's Division	{ Lowering 2 in. fire connection } on Seneca St.....	12 70
Dept. of Public Works, Park Division.....	Changing connection No. 7398 Erie	19 61
Cleveland Rolling Mill Co.....	6 in. connection on Jones Ave.....	197 54
Warner & Swasey.....	2 in. " E. Prospect St.....	37 32
J. Schneeberger.....	3 in. " Portland St.....	43 52
E. W. Tyler.....	2 in. " Turney Ave.....	25 98
Cleveland Rolling Mill Co.....	6 in. " Richmond St.....	183 87
Cleveland Rolling Mill Co.....	4 in. " Wire St.....	55 63
Chafer & Becker.....	4 in. " E. Madison.....	67 23
Brush Electric Co.....	4 in. fire " Belden Ave.....	36 77
Dept. of Public Works, Engineer's Division	Cutting pipe on Broadway.....	10 00
John Brotz.....	Hay from Kinsman reservoir.....	10 00
L. D. Chadwick.....	6 in. water pipe on Genesee St.....	608 00
W. H. Van Tine, Jr., trustee.....	6 in. water pipe on Genesee St.....	210 00
Warden & Lies.....	Valve and valve box.....	10 10
The Geo. Worthington Co.....	One Crane fire hydrant.....	29 15
Dept. of Public Works, Engineer's Division	Repairing valves on Harvard St.....	9 75
Christ Houck.....	Hay from Fairmount reservoir.....	10 00
W. C. Scofield.....	6 in. water pipe on Ezra St.....	620 00
Dewstoe & Schneider.....	Two valve covers.....	1 25
Emil Prange.....	{ For 5,9746 tons pipe @ \$24.10 } per ton.....	143 99
J. T. Rust.....	4 in. connection on Prospect St.....	64 30
J. T. Rust.....	3 in. connection on Prospect St.....	57 01
Chas. G. King, Jr.....	3 in. connection on Prospect St.....	56 95
Edmund James.....	6 in. water pipe on Sawyer & Crane	738 00
Benjamin Rose.....	2 in. connection on Prospect St.....	35 34
Mrs. A. E. Westbrook.....	One old style stop cock box.....	1 50
Cleveland City Cable R. R. Co.....	Flushing conduits.....	16 50
Geo. W. Richardson.....	6 in. water pipe on Talbot St.....	225 00
Henry H. Jones.....	6 in. Hathaway St.....	660 00
H. P. Rose.....	6 in. Simon St.....	925 00
Henry H. Johnson.....	6 in. Superior St.....	450 00
Curtiss & Ambler.....	6 in. Superior St.....	450 00
Cleveland Electric St. R. R. Co.....	1 in. connection on Fifth Ave.....	87 17
Garry & Fay.....	{ Watching and repairing pipe } on Forest St.....	19 64

From Whom.	For What.	
Louisa Beckman	6 in. water pipe on Ehart St.....	\$ 778 00
Louisa Beckman	6 in. " Beckman St.....	773 00
H. P. McIntosh.....	6 in. " Perkins St.....	362 98
Cleveland & Pittsburgh R. R.....	{ Labor finding connection on } { Lawrence St..... }	5 65
Akron Water Works Co.....	Testing meter	3 00
Standard Tool Co.....	4 in. connection on Central Ave.....	61 54
Garry & Fay.....	Repairing pipe on Forest St.....	11 85
McReynolds & Emerson.....	3 in. connection on E. River St.....	52 16
People's Gas Light Co.....	2 in. " Pearl St.....	16 23
Smith & Connors.....	4 in. " Scovill Ave.....	76 29
T. J. Smith.....	Testing meter.....	70
R. E. Green.....	One meter counter.....	3 50
Curtiss & Ambler.....	6 in. water pipe on Adrian St.....	1,000 00
Standard Oil Co.....	3 in. connection on Jefferson St.....	88 05
Garry & Fay.....	Watching pipe on Broadway.....	13 12
W. R. Hallaran.....	4 in. connection on Wood St.....	53 92
W. C. Scofield.....	6 in. water pipe on Ezra St.....	50 00
Garry & Fay.....	Repairing pipe on Forest st.....	17 11
Campbell Bros.....	" Detroit St.....	10 86
Goff-Kirby Coal Co.....	{ Water for washing coal on } { Jefferson St..... }	10 00
Upton Nut Co.....	Moving hydrant on Scranton Ave.....	23 58
L. T. Dennison.....	6 in. water pipe on Davis St.....	740 00
C. F. Hanna.....	246 lbs. old pipe @ 1/4c. 7 lb.....	1 23
Dept. of Public Works, Engineer's Division.....	{ Repairing and moving boxes } { on Gaylord St..... }	13 65
Koblitz Bros.....	Old scrap iron.....	1 10
Campbell Bros.....	Lumber on Burton St.....	6 68
H. Sacharoff.....	Old oil barrels.....	22 20
Peck, Stowe & Wilcox Co.....	{ Two 4 in. fire connections on } { Seneca St..... }	175 47
Warden & Leiss.....	4 in. connection on High St.....	55 52
Wenzel Medlin.....	4 in. " Gordon Ave.....	46 49
L. Poplowsky.....	4 in. " Champlain St.....	51 61
Department of Fire.....	For fire pipe on Superior St.....	2,176 43
" ".....	" Seneca St.....	359 11
" ".....	" Champlain St.....	414 51
Henry R. Worthington.....	Two boiler feed pumps.....	76 00
McIntosh-Huntington Co.....	Credit on bill.....	19
L. Poplowski.....	Valve, cylinder box and cover.....	10 10

DEPARTMENT OF PUBLIC WORKS.

From Whom.	For What.	
L. Poplowski.....	{ Changing 2 in. conn. to 3 in. on Champlain St..... }	\$ 45 23
Frank Reilley.....	Two fire hydrants at \$25.95 each.....	51 90
The Hollenden Hotel.....	Lowering metr.....	8 16
Hercules Powder Co.....	Credit on bill.....	1 64
Geo. Worthington Co.....	{ Twelve 4 in. fire hydrants at \$25.95 each..... }	311 40
Louisa J. Roberts.....	{ 6 in. water pipe on Common- wealth Ave. }	336 00
Michael McGreal.....	Credit on roll.....	33 00
Dept. of Public Works, Engineer's Division	13,943 pounds old pipe @ \$15 $\frac{7}{8}$ ton..	104 56
H. P. Card.....	{ Expense of coal test at engine house..... }	50 00
		<hr/> \$ 22,853 07

LAKE CRIB.

This building has received repairs to quite an extent. Sections of the iron band enclosing the crib about three feet below water were refastened in a more secure manner on two sides.

The section on the south or shore side was taken off and the wedge blocking removed, and the band brought to proper position tight against the wall of the crib. The plank sheathing on this side being ragged and worn at the water line by the action of the ice, was cut off just above the iron band, and the timber wall of the crib re-covered and strengthened with two pieces of oak, four (4) inches thick and eighteen (18) inches wide, placed one above the other and fastened with drift bolts and lag screws.

On the northwest side the band was found loose and several bolts had worked out and were lost: this section was drawn up tight against the crib for a distance of about fourteen (14) feet from each corner, leaving a space of twenty-four (24) feet in the middle of this section, which was from two to four inches away from the side of the crib: this space was filled with wood blocking which was fastened both above and below the iron band, the band was then drawn up with lag screws.

Two angle plates three-eighths ($\frac{3}{8}$) inch thick, four (4) feet wide and eight (8) feet long were bolted, one on the southeast and one on the southwest corner to protect the corners at the water line. The greater portion of this work had to be done by a diver and only when the weather was calm, making it rather expensive.

On the inside, oak stringers were placed on the floor of the crib against the outer wall of the superstructure to strengthen it, as some of the upright timbers were found to be somewhat decayed.

The masonry around the well, which has shown some slight cracks, has been strengthened by placing three large iron bands one-half ($\frac{1}{2}$) inch by four (4) inches around the same and drawing them up on oak blocks, which clamps it together in a substantial manner.

The tower was painted with two coats of red lead and the roof two coats of white lead. It has been decided to put in new stringers and braces, and new sheathing above the floor line on four sides of the crib during the coming year.

TUNNELS.

No trouble of any kind has been experienced with the supply of water through either lake tunnel during the past year.

DIVISION STREET PUMPING STATION.

There have been added three new tubular boilers eight feet in diameter and sixteen feet long, in the north boiler house, and four tubular boilers, six feet and six inches in diameter and sixteen feet long, in the south building: all equipped with the Murphy smokeless furnaces. The 15,000,000 gallon high duty Worthington pumping engine, which was contracted for in 1892, has been completed and accepted, and is now in daily use giving good satisfaction. We now have enough boiler and pumping capacity in reserve to enable us to make some much needed repairs, which up to this time could not be attempted, as during the summer all pumps were required to supply the city with water and had to be kept ready for use, although some were not in proper condition. Worthington engine No. 1, which has been in constant use over seventeen years, is now being thoroughly overhauled and will be put in first-class shape. The roof of the south building leaks in a few places, but can be repaired without great expense. During the excessive cold weather much annoyance is caused by the heavy condensation on the iron roof dropping on to the machinery, which could be prevented by constructing a wooden ceiling just below the roof trusses so that the warm and moist air in the engine room will not come into immediate contact with the iron roof. Both the north and south engine houses have been painted, which adds very much to their appearance.

The coal that is now in stock is crumbling and fast turning to slack and should be used and replaced with fresh coal. The coal platform at the south building could be easily roofed over, and it would no doubt be advisable to do so, in order to prevent, or at least delay the disintegration and loss of heating power of the coal kept in stock. The space occupied in storing coal at the north building has never been covered, on account of the N. Y. P. & O. R. R. having the right to cross our grounds at that point. Sheds should be built for this provided the proposed tracks can be moved further north.

The railroad track leading to the south building, which was contracted for late in 1892, was completed early this season and saves a large amount of work in handling the coal.

A new sixty ton track scale was placed in this track on which all coal for the south building is weighed. The report of the Engineer in charge of this station accompanies this report and enters more fully into details.

HIGH SERVICE PUMPING STATION.

The two wrought iron stand pipes on the suction and discharge mains have been thoroughly scraped and painted. The brick tower around the stand pipe of the discharge main was completely overhauled and painted, adding greatly to its appearance.

FAIRMOUNT RESERVOIR.

One of the columns of the bridge, in the northeast corner of the north basin of this reservoir, was broken by the ice during the winter of 1892 and 1893.

The bridge was taken down and laid aside until November, 1893, when this basin was cleaned; the column was then repaired and the bridge replaced.

When the basin was drained some large cracks were found in the concrete bottom evidently caused by the expansion of the concrete; these cracks were principally found where repairs had been made about six years ago. The top layer of concrete, of from four to six inches thick, had raised from four to five inches and in some places overlapped the undisturbed portion of the concrete two or three inches.

The concrete along these cracks was removed for a width of from two to twelve feet and replaced with new material. When this work was completed, it was deemed advisable, on account of the lateness of the season, to postpone the draining and cleaning of the south basin until early next spring.

In cleaning this basin we were agreeably disappointed in finding so small an amount of sediment on the bottom, there being on an average not more than one inch in depth.

KINSMAN RESERVOIR.

In repairing the paving of the inside slopes in 1892, good stones were taken from the layers near the top to replace the crushed and broken stones near the bottom; these stones as well as others found unfit for use have this year been replaced by new ones.

The top courses of pavement as well as the top of the embankment have been brought up to line and grade wherever found necessary.

The outer edge of the top of the embankment was graded to three inches lower than the inner slope, so as to drain all surface water to the outer slope.

A new fence has been built on the top of the embankment around the reservoir and painted, and will be given another coat of paint in the spring.

Before 1893, the water in this reservoir had been kept at an average depth of about 16½ feet; after completing the repairs the water was raised to nearly twenty feet. In August, five small leaks were discovered in the east embankment and north of the waste pipe, attention being first drawn to them by the fresh appearance of the grass at these places during the dry season. These leaks were so small that ordinarily they would have passed unnoticed.

All but two have been repaired; these two we were unable to locate prior to cold weather, but they will be attended to in the spring.

The residence of the reservoir keeper has been painted outside and is in good order.

PIPE LAYING.

The increased mileage of pipe laid during the year is as follows:

In Low Service District.....	17 miles,	4,123 feet.
In High Service District.....	5 miles,	1,213 feet.

Total in both districts.....	23 miles,	56 feet.
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The total length of all sizes of pipe now in use is:

In Low Service District.....	346 miles,	1,698 feet.
In High Service District.....	37 miles,	1,475 feet.

Total.....	383 miles,	3,173 feet.
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Pipes relaid	12,079 feet.
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Pipes lowered.....	13,103 feet.
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Total relaid and lowered.....	25,182 feet,
equal to 4 miles 4,062 feet.	

When lowering the pipes in streets previous to their being paved, the service connections, although they are private property and not belonging to the department, are also lowered by us from the main to the curb to prevent their being frozen in winter and the tearing up of pavement for repairs.

Six hundred and eighty-nine of these connections have been lowered, equal to about 12,470 feet, or two miles 1,910 feet.

STOP GATES.

The increased number of stop gates set during the year 1893, is as follows:

Low Service District	468
High Service District.....	138
Total increase.....	<u>606</u>
In use prior to 1893.....	7,588
Total in use December 31, 1893.....	<u>8,194</u>

FIRE HYDRANTS.

The increased number of fire hydrants set in 1893 is:

Low Service District.....	255
High Service District.....	83
Increase.....	<u>338</u>
Total in use prior to 1893.....	4,058
Total hydrants in both districts.....	<u>4,396</u>

SERVICE PIPES.

Size.	Total Connections made to Dec. 31, 1892.	Conne- ctions changed to other sizes in 1893.	Total.	Aban- doned Num- bers Re- issued in 1893.	Total.	Conne- ctions made in 1893.	Total Dec. 31, 1893.
½ in.	1,744		1,744	.....	1,744	293	2,037
¾ in.	36,868	46	36,822	2	36,824	2,470	39,294
¾ in.	926	7	919	22	941	166	1,107
1 in.	286	1	285	.....	285	19	304
1¼ in.	57	1	56	.....	56	1	57
1½ in.	98	2	96	2	98	10	108
2 in.	255	2	253	10	263	3	266
2½ in.	3	.....	3	.....	3	.....	3
3 in.	145	.....	145	4	149	.....	149
4 in.	278	.....	278	17	295	.....	295
6 in.	17	.....	17	1	18	.....	18
8 in.	5	.....	5	1	6	.....	6
	49,682	59	49,623	59	40,682	2,962	43,644

Turned off for nonpayment of rent and other causes.....	1,343
Not extended beyond curb.....	4,128
Abandoned and plugged.....	7
Connections not in use.....	5,478
Total connections issued.....	43,644
Connections not in use.....	5,478
Connections in use December 31, 1893.....	38,166
Connections in use December 31, 1892.....	36,508
Increase.....	1,658

METERS.

The total number of devices for measuring water in use December 31, 1893, is 1992. Of this number there are 156 elevators, 6 water motors and 105 private meters, leaving 1725 meters belonging to the department. The number of gallons measured by these meters during the year was 3,902,465,600, an increase of 351,477,600 gallons over the year 1892, and a daily average of 10,691,410 gallons of measured water.

RECAPITULATION OF METERS FOR 1893.

Size of Meter.	¾ in.	1 in.	1½ in.	2 in.	3 in.	4 in.	6 in.	Total.
In use previous to 1893..	805	385	174	169	88	72	.....	1,693
Set in 1893.....	29	19	15	23	7	4	1	98
Total	834	404	189	192	95	76	1	1,791
Taken out in 1893.....	30	12	8	10	4	2	.....	66
Total in use Dec. } 31, 1893.....	804	392	181	182	91	74	1	1,725

TABLE

Showing kind, number and sizes of meters in use Dec. 31, 1893.

Name of Meter.	¾ in.	1 in.	1½ in.	2 in.	3 in.	4 in.	6 in.	Total.
Worthington.....	800	389	181	180	89	68	.....	1,707
Crown.....	3	2	.....	.....	1	3	.....	9
Ball & Fitts' Rotary.....	1	.....	.....	.....	1	.....	.....	2
Hersey .....	.....	1	.....	1	.....	2	1	5
Thomson.....	.....	.....	.....	1	.....	1	.....	2
Total.....	804	392	181	182	91	74	1	1,725

Total number of meters owned by the department	1,725
" " elevators in use	156
" " motors in use	6
" " private meters	105
Total	1,992

There are 39 other private re-registering meters.

As will be seen from the foregoing tables, only 32 meters were added by the department during 1893 owing to the meter rates having been reduced so much in the last few years, that it was thought that the limit of profitable meter application had been reached, except on the larger connections. In order to throw more light on this subject, tables were prepared from which were taken the number of meters registering to the amount of fifty dollars or less per annum, for the purpose of making a comparison with assessed rates. According to these tables there are 664 meters in use which registered fifty dollars or less each per annum, the total revenue derived from them being \$11,379.45, or an average of \$17.14 each, and 216 of this number do not register the minimum amount allowed, namely, 25,000 cubic feet or \$10.00 per annum. 165 of these 664 were set previous to July, 1882, when meter rates were three times the present rates, and 312 were set previous to December, 1886, when the rates on small amounts were two and a half times those now in force. Only 187, or an average of 27 per year, have been added since 1886. On 337 of these 664 meters, there is no record of an assessment; but on the balance, or 327 meters, the assessment amounted to \$6,570.00 according to assessments made prior to the setting of the meters, while the revenue derived from these same meters during the year 1893 amounted to \$5,866.10. 420 of these 664 meters are in the old and business portion of the city and in blocks and business houses where many hands are employed, and where plumbing is old and more apt to be defective and where there is the most probability of waste; and it is considered that although these meters may bring in less revenue than these same places would bring if placed under an assessed rating, they more than pay for the money invested and loss in revenue, if any, by reason of their acting as waste detectors and recorders, and by the saving to the department of a large quantity of water which would otherwise be wasted; and if at the same time they reduce the water rent of the consumer, it is to be regarded as a reward for and the result of care and watchfulness on his part. Many of these meters when first set, increased the water rent enough to more than pay for the cost of the meter in addition to the assessed rate, until the plumbing was overhauled and rents gradually reduced to their present low amount.

Efforts have been made at various times by the large manufacturers to get water for manufacturing purposes at lower rates,

and as this matter may again be presented in the near future, a recapitulation of meter rates since the beginning of the works is here introduced :

Sept. 16, 1856, the rate was established at $1\frac{1}{2}$ cents per barrel, equal to 3.75 mills per cubic foot, or \$3.75 per thousand cubic feet.

Oct. 23, 1860, the rate was changed to $\frac{5}{8}$ cents per barrel, equal to 1.56 mills per cubic foot or \$1.56 per thousand cubic feet.

Nov. 10, 1862, the rate was changed to 4 mills per barrel, equal to 1 mill per cubic foot or \$1.00 per thousand cubic feet.

Dec. 1, 1864, 25 per cent. was added to previous rates, making the charge 5 mills per barrel, equal to 1.25 mills per cubic foot or \$1.25 per thousand cu. feet.

Aug. 6, 1872, a graded meter rate was made as follows: For the first 50,000 cubic feet or less, 1.2 mill per cubic foot, equal to \$1.20 per thousand; for any amount between 50,000 cubic feet and 100,000 cubic feet, 1 mill per cubic foot, equal to \$1.00 per thousand.

For any amount between 100,000 and 200,000 cubic feet, 9-10 mills per cubic foot, equal to 90 cents per thousand.

For any amount between 200,000 and 300,000 cubic feet, 8-10 mills per cubic foot, equal to 80 cents per thousand.

For any amount exceeding 300,000 cubic feet, 7-10 mills per cubic foot, equal to 70 cents per thousand.

On Oct. 6, 1877, this rate was altered as follows:

For the first 50,000 cubic feet or less, 1.2 mills per cubic foot, equal to \$1.20 per thousand.

For any amount between 50,000 cubic feet and 100,000 cubic feet, 1 mill per cubic foot, equal to \$1.00 per thousand.

For any amount between 100,000 cubic feet and 200,000 cubic feet, 9-10 mills per cubic foot, equal to 90 cents per thousand.

For any amount between 200,000 and 300,000 cubic feet, 8-10 mills per cubic foot, equal to 80 cents per thousand.

For any amount between 300,000 cubic feet and 400,000 cubic feet, 7-10 mills per cubic foot, equal to 70 cents per thousand.

For any amount exceeding 400,000 cubic feet, 6-10 mills per cubic foot, equal to 60 cents per thousand.

Provided that in no case shall the charge be less than at the rate of \$10.00 per annum.

July 7, 1892, rates were reduced to the following:

For the first 50,000 cubic feet or less, 1 mill per cubic foot, equal to \$1.00 per thousand.

For any amount between 50,000 cubic feet and 100,000 cubic feet, 9-10 mills per cubic foot, equal to 90 cents per thousand.

For any amount between 100,000 cubic feet and 200,000 cubic feet, 8-10 mills per cubic foot, equal to 80 cents per thousand.

For any amount between 200,000 cubic feet and 300,000 cubic feet, 7-10 mills per cubic foot, equal to 70 cents per thousand.

For any amount between 300,000 cubic feet and 400,000 cubic feet, 6-10 mills per cubic foot, equal to 60 cents per thousand.

For any amount exceeding 400,000 cubic feet, 5-10 mills per cubic foot, equal to 50 cents per thousand.

Provided that in no case shall the charge be less than at the rate of \$10.00 per annum.

Dec. 18, 1886, rates were reduced 10 per cent. of the above prices.

July 23, 1887, in order to "equalize so far as possible the rates to all consumers in the city," the price was reduced to the uniform rate of 1-2 mill per cubic foot, equal to 50 cents per thousand cubic feet, to take effect Oct. 1, 1887, provided that the charge in no case shall be less than \$10.00 per annum.

In October, 1892, rates were reduced 10 per cent. of the previous prices.

Beginning with April 1, 1893, the meter rate was reduced to the uniform rate of 4-10 mills per cubic foot, equal to 40 cents per 1,000 cubic foot or $5\frac{1}{3}$ cents per 1,000 gallons.

The minimum rate, where meters are owned by the department, was kept at \$10.00 per annum, and the minimum rate, where the meter is owned by the consumer, was established at \$8.00 per annum.

The demand of the larger manufacturers for a lower rate for water for manufacturing purposes, is based on the general practice of wholesale houses who sell large quantities in bulk or car load cheaper than they would by retail; also, on the ground that large quantities of water can be delivered at a relatively less cost than small ones. On the other hand the smaller consumers claim that supplying the larger manufacturers at cheaper rate would be discriminating against them, and would make it still more difficult for them to compete with the larger ones. For this latter reason the rates were changed in 1887 from a graded to a uniform rate.

The total quantity of water pumped in 1893, as shown by the engine records, was 15,389,565,660 gallons, making an average of 42,163,194 gallons per day. This is an increase of 2,051,431,440 gallons over the total quantity pumped during the year 1892, or 5,720,000 gallons over the daily average of the year 1892; making an increase of $15\frac{38}{100}$ per cent. over the previous year. The average per cent. of increase one year over another, from 1857 to the present year, has been 14 per cent. At this rate next year the daily consumption will reach 48,000,000 gallons. During the year 1893 the greatest amount of water consumed in one day was 63,000,000 gallons, July 25th, while the smallest quantity consumed in one day was 27,000,000 gallons, Oct. 25th. This was at a season of the year when there is no occasion to waste as there is during the extremes of weather. During the present year it is to be expected that in extreme cold weather, when water is wasted to prevent freezing, as well as during the hot dry season, when water is wasted in excessive sprinkling of lawns, the daily quantity of water pumped will reach 68,000,000 gallons, leaving only 12,000,000 gallons pumping capacity in reserve. This means that immediate steps should be taken to build a new boiler house and engine house, and equip them with boilers and pumping engines, also additional mains. The pumping engines should be ready for service not later than the year 1895. The waste of water can be materially reduced by applying more meters, and by a more rigid enforcement of the rules regarding waste and the indiscriminate and wanton sprinkling of lawns at all hours of the day, and sometimes nights, as practiced by many. I believe 10,000,000 gallons a day for sprinkling streets and lawns is ample and liberal for the hottest days in summer. From tests made at the Water Works office a $\frac{1}{8}$ -inch orifice will discharge 540 gallons in four hours, the time allowed per day for use in sprinkling, and estimating that out of the 38,166 connections in use, 18,000 consumers sprinkle only four hours, this would amount to about 10,000,000 gallons per day, leaving 26,000,000 gallons that were wasted in one day by allowing the water to run in large streams, and for longer hours than the regulations permit.

The cost of pumping each million gallons one hundred feet high at the Division Street Pumping Station was \$3 16-100, and the cost to deliver the same quantity into Fairmount Reservoir was \$6 8-100 (192.7 ft.)

HIGH SERVICE DISTRIBUTION.

The number of gallons pumped at the High Service Station was 638,902,350, making an increase of 232,885,500 gallons over the year 1892, equal to 57.6 per cent.

The cost of pumping each million gallons one hundred feet high at this station was \$6. 3-10, and the cost to deliver the same quantity into the reservoir was \$9 80-100 (162.4 ft.)

COLLECTIONS.

Owing to the financial depression many people have been out of employment, and on this account the turning off of water from delinquents was postponed later than usual. After Dec. 1st, personal notice was served on all places, about 3,500, where bills were unpaid. The response, considering the times, was very satisfactory, as shown by the small number of connections turned off, namely 1,343, and of this number 790 were vacant houses. The total amount collected for 1893 was \$548,627.58, being \$49,805.92 less than was collected in 1892, or about 9 per cent., although the rates have been reduced about 15 per cent. lower than they were for 1892.

RECOMMENDATIONS.

In last year's report special attention was called to the necessity of improving Clark Ave. across the Cuyahoga Valley to enable this Division to carry a 30-inch main across the Valley at this point. The same necessity still exists, only to a greater extent, and this work should be done at the earliest possible date. The line of 16-inch pipe that was planned to be laid last year in Euclid Ave. from Doan St. east should be laid this year to Lyman St., and in case the street should be paved to the present city limits the pipe should be laid to that point. The 36-inch pipe in Gordon Ave., from Bridge St., should be laid south to Clark Ave., and possibly further south, or westerly on Clark Ave., as may be determined when it is definitely decided as to the plan we shall adopt for supplying the higher elevations in the southwest corner of the city. This section is growing rapidly, and at various times the last season during the hot weather we were unable to furnish them with water owing to there being no large main in this section to supply the smaller ones.

I would recommend placing a set of track scales in our switch at the High Service Pumping Station for weighing the coal used there.

I also recommend that immediate steps be taken towards building a new engine and boiler house at the Division St. Pumping Station large enough for two 15,000,000 gallon engines and their boilers, and that one set of pumping engines and boilers should be placed under contract in the year 1894. The sewer on the east side of the north lot at Division St. Pumping Station should be changed farther east to run immediately beneath the open drain close to the east line of the Water Works lot, preparatory to starting a new engine and boiler house.

NEW TUNNEL AND PUMPING STATION.

This is a subject that should receive prompt and earnest attention in the way of locating a new plant in the eastern part of the city. Samples of water should be obtained from the lake and carefully analyzed; to be taken at various times, places and distances from shore, after storms or heavy freshets, which would produce the worst condition, in order to better locate the intake of the new supply and place it at a safe distance from probable sewage contamination. Some little time has been spent in looking over this matter, but no definite point selected for a location.

THE FOLLOWING APPROPRIATIONS

Have been made for this division for the ensuing year:

FIXED CHARGES.	
For payment of interest and rent	\$ 92,150 00
For salaries of officers and regular employes.....	100,000 00
FURNITURE AND FIXTURES.	
For increase in boilers, engines, pumps, water meters and other machinery..	40,000 00
For office and station furniture and implements.....	2,000 00
SUPPLIES.	
For office supply and stationery.....	1,000 00
For fuel and light, water and ice.....	60,000 00
For miscellaneous supplies.....	5,000 00
For repairs to machinery (contingency \$10,000).....	20,000 00
For repairs to buildings and pipe (contingency \$20,000).....	30,000 00
For ferrules and tapping (including labor).....	10,000 00
For contingent expenses.....	2,000 00
PERMANENT IMPROVEMENTS.	
For land.....	10,000 00
For buildings.....	40,000 00
For extension of pipe system, including tunnels, crib, reservoir.....	435,850 00
For grading, improving and sewerage.....	2,000 00
LOANS.	
For the payment of bonds and return of deposits.....	30,000 00
Total.....	\$880 000 00

Respectfully,

M. W. KINGSLEY,

March 3d, 1894.

Superintendent.

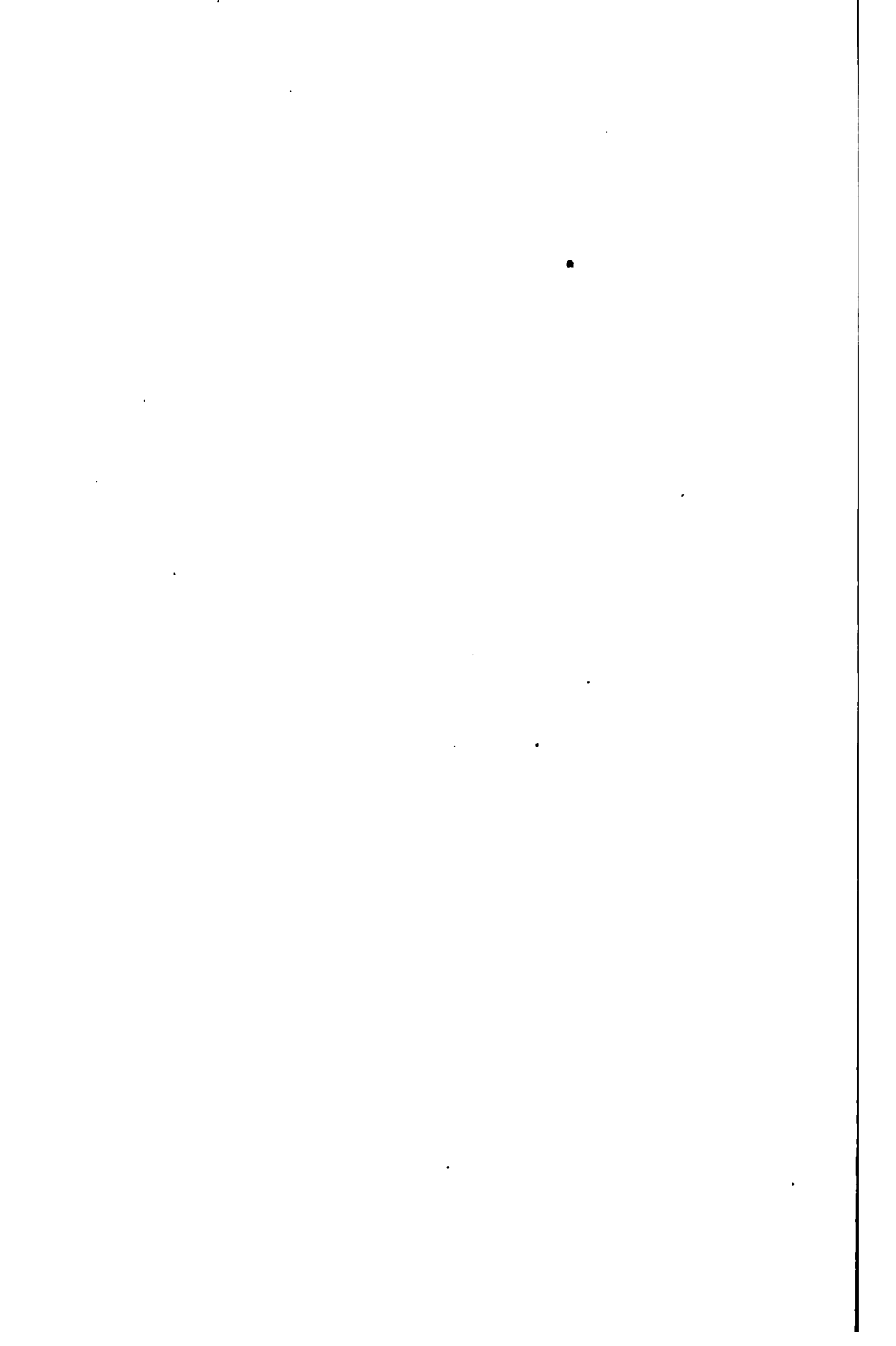
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REPORT OF ENGINEER

OF

PUMPING DEPARTMENT.

•



REPORT OF
Engineer of Pumping Department.

To the Superintendent of Cleveland Water Works :

DEAR SIR:—The Engineer of the West Side Pumping Department of the Cleveland Water Works would respectfully submit the following annual report :

WORTHINGTON ENGINE No. 1.

This machine continues to do good work notwithstanding the condition it is in. It had to stop twenty times during the year for trifling breaks, which is very annoying, for the most of it is caused by faulty construction of the water valve seats which are too weak for the heavy pressure, and they are fastened in with lead which is not strong enough to hold them. But, I suppose that this was thought to be a good device twenty years ago when we were pumping against lower pressure. It may take about three thousand dollars to put this machine in fair working order, when if we were to replace all the broken parts with new it would take considerable more, and I think it is a question whether we should do this, for in the near future it will undoubtedly be removed and replaced with a high duty machine. This engine is ready to start now if wanted.

WORTHINGTON ENGINE No. 2.

This machine will not require much repairing this winter. It broke one plunger head, and sixteen seven-eighth studs; one steel thimble and bolt were broken in one of the air pump working beams. It also received four new foot valves in the air pumps, and four top brasses in the air pump connection rods were replaced with new ones. On August 6th the high pressure steam valve got adrift in one of the steam chests which caused the engine to stop about one day. It also stopped six times on account of broken water valve seats. This machine is running every day and working well.

WORTHINGTON ENGINE No. 3.

This engine had no serious accident during the past year. On February 7th, a low pressure valve got adrift in one of the steam chests, which caused the engine to stop about two days, and it was disabled twelve times during the year by broken water valves, and seats, which caused it to stop from three to five hours each time. The repairs necessary to be done on this engine this winter will not amount to much. It is working well and running every day.

KNOWLES ENGINES Nos. 1 AND 2.

These engines ran nearly every day until the 28th of March, when they were stopped to change the suction pipe on No. 1. We disconnected the suction pipe and put a blank flange on No. 2 pipe. This only took about four days, and we only had one of the engines disabled. We had the suction pipe completed on No. 1, May 4th. The well was cleaned out and enclosed, and the engine started on the 15th of May. While this work was in progress we changed the steam pipes on both engines as we contemplated doing, so now we have these engines in much better control. On July 21st, No. 1 broke a rock shaft arm, which was caused by the low pressure valve yoke getting adrift in one of the steam chests, and one of the parts dropped down in front of the valve and prevented it from traveling

to the end of the chest. On August 14th, two air pump trunks broke loose from the connecting rods on No. 1, which was repaired, and the engine started on the 18th. Early in the fall these engines were stopped one at a time, and given an extensive overhauling, and they ought to be good for a year's run now with little trouble.

HENDERSON AND HIGH DUTY WORTHINGTON ENGINES.

The Henderson engine was only required to run three days last year, and on July 11th, they started to remove it to make room for the Worthington high duty engine. It was all removed on the evening of August 9th. The foundation was started on the 10th, and finished on the 31st. They started to put the new machine on the foundation September 1st. They had steam on the jackets October 3rd and started on the 5th, run three hours low duty, when it was stopped and connected for a high duty run. It was started and stopped several times to enable them to adjust the different parts, and on December 13th, a duty trial of twenty-four hours' duration was made, and it proved satisfactory. Then after making a few changes that we suggested the engine was accepted by the city. We are highly pleased with the performance of this machine, and expect to see great results from it the coming year. It will undoubtedly prove all they claim for it, as to the quantity of water it will pump and the saving of fuel.

BOILER FEED PUMPS.

We will soon be in better condition in regard to feed pumps than we ever were before. On May 5th, we received a Worthington feed pump with a five inch suction and four inch discharge, which was placed on a good foundation in No. 2 engine room, and on November 13th, we received a new Worthington of the same size for the south engine house. The two Cameron pumps have been thoroughly repaired, and the two Knowles pumps will undergo the same repairs, and we have changed the location of some of them so they will be more convenient to get at. Two old small Worthington

pumps were sold in part payment for one of the new ones. When this work is finished we will have three Worthingtons, two Camerons, and two Knowles pumps in good working order, which will be a great relief.

BOILERS.

We have added considerable to our boiler plant during the past year, having put in seven new tubular boilers. The boiler plant consists now of ten marine and fifteen tubular, which will furnish all the steam we want to run the six pumping engines. All the new tubular boilers are set with the Murphy smokeless furnace setting. June 19th, the three boilers in the north fire room were completed and fire started, and July 16th an evaporation test was made which proved satisfactory, and the Murphy setting was accepted. On Oct. 3d the four boilers in the new south fire room were complete and fire started. The evaporation test will not be made on these boilers until about the first week in January. We have had no expense for repairs on the tubular boilers the past year, but the marines have been a big expense. Five of these boilers have had extensive repairs the past year and two the year before, which leaves three more that must receive our immediate attention. We found the brick work in a dangerous condition on the six Knowles tubular boilers. Three of these have had the walls rebuilt solid with fire brick, and the other three are receiving our attention now.

MISCELLANEOUS.

May 9th they started to lay the railroad track from the river front to a point about three car lengths beyond the new south fire room. In the mean time we changed our narrow gauge track and provided it with turn tables to take the coal from the new track into the south fire room. This was completed and put to use June 30th. A line of four-inch water pipe has been laid from the eight inch, across the lawn to a point near the southwest corner of the south fire room, and provided with a fire plug, also one from the same pipe to a point near the north door. We are altering the direction of all our lines of steam pipe, in order to do away with all the expansion

joints that we can, for they constantly annoy us by their leaking. We are changing all the feed pipes on the tubular boilers to feed down through the top of the shell, which we think is an improvement, and we are providing all the pipes with a sufficient number of valves so that we will have all of them under better control. In March our dynamo gave out and had to be sent to the Brush works. In April the friction gear gave out, and I had the wires reversed and ran the dynamo with a belt, but still there was constantly something the matter with it, and it was finally decided to replace the whole machinery with new, that will be suitable to do the work satisfactorily. We are also promised a lathe, a drilling machine, and a shaper. When we have this work all completed we will be in much better shape than we ever were before, but it will take until the first of April or May to complete all of it. We will have no trouble to furnish all the water that they want next summer for we have ample boiler and pumping machinery to do it.

Respectfully submitted,

HENRY BOTTEN,
Engineer in Charge.

SCHEDULE,

Showing the gallons of water pumped and coal consumed in pumping; percentage of coal consumed and water pumped by each engine; contract price of coal, and cost of coal for raising one million (1,000,000) gallons into reservoir.

Year.	Engine.	Number.	Water pumped by the different engines.	Pounds of coal consumed by the different engines.	Per cent. of water pumped by the different engines.	Per cent. of coal consumed by the different engines.	Coal consumed by the different engines for pumping one million gallons into reservoir.	Per cent. of coal consumed by the different engines pumping one million gallons into reservoir.	Contract price of coal.	Cost of coal for pumping one million gallons into reservoir.
1883	Worthington.....	1	3,092,871,860	13,015,657	20.087	20.886	4,206	14.533	\$ 1 42	\$ 2 99
1883	"	2	2,927,462,060	11,997,990	19.022	19.253	4,098	14.184	1 42	2 91
1883	"	8	3,061,060,860	12,078,027	20.020	19.382	8,921	13.542	1 42	2 78
1883	"	4	216,358,560	564,830	1.406	.806	2,610	9.014	1 42	1 85
1883	Knowles.....	1	3,092,965,024	12,600,104	20.088	20.220	4,073	14.068	1 42	2 89
1883	"	2	2,970,334,328	12,008,000	19.301	19.270	4,042	13.960	1 42	2 87
1883	Cuyahoga.....		8,512,968	51,100	.066	.063	6,002	20.729	1 42	4 26
.....	Totals and averages.....	.....	15,989,665,690	62,315,708	.....	.....	4,049	.....	\$ 1 42	\$ 2 87

WATER WORKS.

WORTHINGTON DUPLEX ENGINE No. 1, RECORD FOR 1893.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	31	736	.....	484,423	4,000	1,212,300	1,216,300	300,342,260	195.061	40,423,524
February	28	654	30	440,370	3,000	1,100,800	1,103,800	273,028,400	192.386	38,914,603
March	31	744	.....	456,409	4,000	1,141,000	1,145,000	282,973,580	189.038	39,216,323
April	30	705	30	413,973	3,000	986,800	989,800	256,663,260	188.565	40,613,858
May	31	740	.....	426,054	2,000	1,021,200	1,023,200	264,153,480	188.309	40,744,965
June	29	707	.....	465,696	6,000	1,157,400	1,163,900	288,731,520	194.909	40,654,881
July	31	728	30	475,335	4,000	1,297,800	1,301,800	294,720,100	197.405	37,486,819
August	21	480	45	300,600	14,000	887,800	901,800	186,372,900	197.061	31,603,178
September	23	496	.....	326,745	11,000	871,600	882,600	202,581,900	193.941	37,706,008
October	30	667	45	401,694	8,000	1,165,000	1,173,000	249,050,280	183.959	32,885,715
November	29	630	.....	433,018	11,000	1,283,300	1,294,300	308,471,160	188.773	33,034,434
December	25	532	.....	364,166	9,000	801,157	810,157	225,792,920	180.988	44,716,816
Totals and averages.....	339	7,822	.....	4,988,503	79,000	12,936,657	13,015,637	3,692,871,860	191.661	38,315,230

DEPARTMENT OF PUBLIC WORKS.

WORTHINGTON DUPLEX ENGINE No. 2, RECORD FOR 1893.

Month.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	31	728		481,103	6,000	1,167,800	1,173,900	284,283,860	195.061	41,676,313
February.....	28	670		450,132	2,000	1,080,400	1,082,400	279,081,840	192.386	41,569,778
March.....	31	740		454,056	3,000	1,089,800	1,092,800	281,514,100	189.038	40,846,977
April.....	30	720		410,153	6,000	948,300	954,300	254,294,860	188.565	42,297,039
May.....	31	736	30	417,894	3,000	915,200	918,200	259,094,290	188.309	44,583,385
June.....	30	718		474,163	.....	1,090,500	1,090,500	293,981,060	194.909	43,952,422
July.....	27	589	30	384,343	16,000	982,300	998,300	238,292,600	198.692	40,318,504
August.....	31	713		441,510	19,000	1,217,200	1,236,200	279,736,200	194.920	36,667,730
September.....	25	528	30	283,198	11,000	725,400	736,400	175,582,760	191.047	38,681,376
October.....	19	402		228,083	11,000	641,300	652,300	141,411,460	185.536	34,222,281
November.....	20	302	45	186,449	8,000	520,900	528,900	115,598,390	189.840	35,240,540
December.....	31	744		510,630	2,000	1,531,890	1,533,890	316,590,600	189.478	32,755,676
Totals and averages.....	334	7,592	15	4,721,713	87,000	11,910,990	11,967,990	2,927,462,060	191.481	39,366,473

WATER WORKS.

WORTHINGTON DUPLEX ENGINE No. 3. RECORD FOR 1893.

Months.	Days	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Totals.			
January	31	739	.....	496,960	2,000	1,168,600	1,170,600	308,115,200	196.061	43,020,462
February	22	511	.....	342,726	3,000	788,500	791,500	212,490,120	191.222	43,105,464
March	31	744	.....	462,163	3,000	1,078,200	1,081,200	298,541,060	189.038	42,023,674
April	30	697	.....	403,866	6,000	907,600	913,600	251,638,920	188.565	43,731,905
May	31	725	.....	413,463	6,000	862,100	868,100	256,347,060	188.309	46,838,076
June.....	30	712	45	474,824	4,000	1,040,600	1,044,600	291,390,880	194.909	46,124,239
July.....	31	740	30	484,836	2,000	1,160,100	1,162,100	300,298,320	197.405	42,742,378
August	31	744	.....	458,696	.....	1,238,400	1,238,400	284,391,520	194.920	37,442,911
September	30	687	15	422,384	14,000	1,041,800	1,055,800	261,884,280	192.620	40,502,666
October.....	31	736	.....	431,272	11,000	1,152,800	1,163,800	267,388,640	194.044	35,706,179
November	25	589	30	391,347	11,000	1,080,800	1,041,800	242,635,140	184.098	36,248,166
December	22	267	05	185,406	9,000	537,527	546,527	114,951,720	190.318	34,044,913
Totals and averages.....	345	7,883	05	4,969,453	71,000	12,007,027	12,078,027	3,081,060,860	190.875	40,970,513

DEPARTMENT OF PUBLIC WORKS.

KNOWLES DUPLEX ENGINE No. 1, RECORD FOR 1893.

Month.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumpng.	Total.			
January.....	11	230		140,053	3,000	504,100	507,100	130,529,386	203.009	43,954,816
February.....	23	530		330,226	3,000	1,221,290	1,224,290	316,168,682	185.642	42,349,165
March.....	28	657		385,625	3,000	1,424,300	1,427,300	368,722,500	192.325	41,632,569
April.....										
May.....	17	382	30	228,507	2,000	751,800	753,800	212,908,524	191.583	45,309,506
June.....	30	720		470,008		1,566,200	1,568,200	438,047,456	197.608	45,289,168
July.....	31	704		424,109	10,000	1,660,400	1,700,400	385,299,588	200.071	39,118,960
August.....	28	632		365,008	17,000	1,480,200	1,507,200	340,187,466	197.589	37,716,905
September.....	26	588	30	314,931	5,000	1,191,700	1,196,700	283,515,662	186.614	40,286,669
October.....	2	34		16,730		65,300	65,300	15,592,360	187.914	37,519,504
November.....	17	391		245,522	11,000	897,900	908,300	228,826,504	193.879	41,342,692
December.....	27	630	30	378,913	4,000	1,707,514	1,711,514	353,146,916	191.858	33,179,549
Totals and averages.....	240	5,518	30	3,318,652	58,000	12,542,104	12,600,104	3,042,945,024	196.165	40,244,474

WATER WORKS.

KNOWLES DUPLEX ENGINE No. 2, RECORD FOR 1893.

Month.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	31	744		491,364	6,000	1,768,500	1,774,500	457,951,248	197.728	42,813,580
February	13	298		183,983	3,000	689,700	672,700	173,386,156	195.924	42,402,957
March										
April	20	674		379,673	6,000	1,529,500	1,335,500	354,041,636	191.565	42,656,158
May	15	342	30	191,924	6,000	627,100	633,100	178,873,168	190.648	45,471,607
June	10	197		117,679	6,000	363,600	369,600	109,676,828	200.507	46,718,519
July	31	744		433,232		1,741,000	1,741,000	465,636,224	200.071	38,978,157
August	31	744		429,922		1,763,300	1,763,300	400,687,304	197.586	37,543,507
September	28	601	30	325,699	16,000	1,221,500	1,237,500	303,551,168	195.488	40,621,743
October	31	733	30	422,752	11,000	1,626,100	1,637,100	394,004,864	186.792	37,843,311
November	14	329		206,625	8,000	805,700	813,700	192,575,432	189.330	37,639,753
December										
Totals and averages	233	5887	30	3,167,054	62,000	11,946,000	12,008,000	2,970,334,328	194.462	40,451,199

HENDERSON ENGINE, RECORD FOR 1893.

Month.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
February	1	13	30	10,316	.....	36,200	36,200	6,021,544	190.463	26,467,486
June	1	6	.....	4,261	.....	14,900	14,900	2,488,424	192.750	26,879,362
Totals and averages	2	19	30	14,577	.....	51,100	51,100	8,512,968	191.606	26,673,424

WORTHINGTON HIGH DUTY ENGINE NO. 4, RECORD FOR 1893.

Month.	Days.	Pumping.		Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising & team.	Pumping.				Total.
October.....	7	72		60,490		181,440	53,222,400	187.102	45,827.516
November.....	4	70	30	47,880		143,610	42,134,400	186.475	45,573,970
December.....	12	184		137,502	6,000	233,750	121,001,760	190.070	82,156,157
Totals and averages.....	23	326	30	245,862	6,000	558,830	216,358,560	187.749	.....

SCHEDULE,
Showing the Distribution of Water for each Day and Month in the Year 1893.

Months.	Gallons of water pumped by Worthington engine No. 1.	Gallons of water pumped by Worthington engine No. 2.	Gallons of water pumped by Worthington engine No. 3.	Gallons of water pumped by Worthington engine No. 4.	Gallons of water pumped by Knowles engine No. 2.	Gallons of water pumped by Henderson engine.	Gallons Distributed.				
							Per Month.	Average per day.	Each Inhabitant per day.	Each Consumer per day.	
January.....	300,342,236	298,283,860	308,115,200	.....	130,529,286	457,851,248	.....	1,495,221,964	48,297,482	148.6	180.89
February.....	273,029,400	279,061,840	212,490,120	.....	316,158,632	173,386,156	6,024,544	1,280,120,692	45,004,310	138.47	168.55
March.....	282,973,880	281,514,100	296,541,060	.....	368,722,500	.....	.....	1,219,751,240	36,346,814	121.07	147.26
April.....	256,663,240	254,294,680	251,686,920	.....	.....	354,041,636	.....	1,116,636,676	37,221,222	114.52	139.40
May.....	264,153,480	259,064,280	256,347,060	.....	212,968,524	178,873,168	.....	1,171,436,512	37,788,242	116.27	141.52
June.....	288,731,520	283,961,060	294,380,880	.....	438,047,456	109,676,828	2,489,424	1,427,316,168	47,577,265	146.39	178.19
July.....	294,720,100	288,292,680	300,266,320	.....	385,239,588	405,636,224	.....	1,684,206,892	52,716,351	162.20	197.44
August.....	186,372,000	273,736,200	284,391,520	.....	340,187,456	400,687,304	.....	1,485,374,490	47,915,306	147.43	179.45
September.....	202,581,800	175,562,760	261,884,280	.....	283,515,692	303,551,408	.....	1,237,116,100	41,237,203	126.89	154.44
October.....	249,050,280	141,411,460	267,398,640	53,222,000	15,592,360	394,004,964	.....	1,120,670,004	36,150,645	111.23	135.29
November.....	268,471,160	115,598,380	242,635,140	42,134,400	228,626,504	192,575,432	.....	1,090,241,016	36,341,267	111.82	136.11
December.....	225,782,920	316,560,600	114,951,720	121,001,760	353,146,916	.....	.....	1,131,473,916	36,499,158	112.30	136.70
Totals.....	3,092,871,860	2,927,462,060	3,061,060,860	216,358,540	3,097,465,024	2,970,334,328	8,512,968	15,399,565,660	42,163,194	129.73	157.91

SCHEDULE,

Showing the total and average quantities of water pumped each year since the beginning of the Works.

Years.	Gallons Distributed.				Per Cent. of Increase.
	Per Year.	Per Day.	Each Inhabitant per day.	Each Consumer per day.	
1857	127,262,265	348,664	7.75	110.68	.....
1858	142,155,434	398,467	8.37	93.44	11.70
1859	198,284,060	513,107	11.31	91.27	39.45
1860	290,220,354	710,984	14.11	105.57	31.87
1861	322,175,022	881,599	16.32	114.50	23.81
1862	399,673,092	1,012,794	19.47	120.57	14.74
1863	420,790,875	1,152,875	20.97	117.54	12.83
1864	476,114,225	1,300,858	21.68	123.89	12.14
1865	517,261,005	1,417,153	21.80	122.70	8.64
1866	597,372,220	1,609,239	22.35	124.26	13.55
1867	696,399,375	1,907,861	23.85	115.98	18.55
1868	768,786,975	2,106,265	24.77	116.08	10.40
1869	898,936,425	2,462,839	27.36	120.20	16.92
1870	1,126,228,500	3,085,558	30.86	113.20	25.28
1871	1,367,621,100	3,746,907	35.68	124.90	21.43
1872	1,686,370,895	4,607,571	40.07	131.64	22.67
1873	1,909,768,835	5,085,230	43.06	137.71	10.85
1874	2,050,252,910	5,625,150	45.36	141.10	9.65
1875	2,216,775,816	6,073,358	44.00	136.65	8.12
1876	2,390,225,403	6,573,220	49.22	131.28	8.23
1877	2,820,326,074	7,726,920	55.91	142.24	17.55
1878	2,892,946,823	7,925,882	51.13	135.05	2.57
1879	3,455,271,981	9,466,498	62.69	145.61	19.43
1880	3,725,683,021	10,179,461	65.25	145.23	7.82
1881	4,847,209,363	13,280,025	76.76	162.34	30.10

SCHEDULE,

Showing the total and average quantities of water pumped each year since the beginning of the Works.

Continued.

Years.	Gallons Distributed.				Per Cent. of Increase.
	Per Year.	Per Day.	Each Inhabitant per day.	Each Consumer per day.	
1882	4,494,538,536	12,313,804	68.41	136.04	-7.27
1883	5,187,432,657	14,212,144	75.60	136.80	15.41
1884	5,990,378,137	16,367,153	82.66	137.83	15.47
1885	6,552,003,190	17,950,694	93.49	139.28	9.37
1886	7,128,674,365	19,530,611	91.26	136.80	8.80
1887	8,127,146,648	22,266,155	95.97	140.38	14.00
1888	8,491,011,152	23,199,703	95.08	130.08	4.48
1889	9,079,461,064	24,875,236	98.71	104.51	6.93
1890	10,142,312,796	27,787,158	106.05	128.64	11.7
1891	11,766,533,132	32,237,077	111.16	136.02	16.01
1892	13,338,134,220	36,442,989	117.56	142.91	13.35
1893	15,389,566,660	42,163,194	129.73	157.91	15.38

CORNISH ENGINE, RECORD FOR 1893.
EAST ENGINE.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	30	280	45	167,500	44,800	149,100	183,900	53,767,500	162.252	48,931,176
February.....	28	257	.....	153,050	42,000	136,200	178,200	49,123,050	161.803	48,809,141
May.....	31	341	50	204,550	36,300	176,100	212,400	65,660,550	160.642	50,080,760
July.....	24	316	15	182,350	28,200	168,900	197,100	58,534,350	166.274	48,190,209
September.....	13	147	05	88,750	24,000	83,100	107,100	28,488,750	163.358	46,834,579
December.....	24	272	50	161,500	38,100	171,900	210,000	51,841,500	164.289	41,422,043
Totals and averages.....	150	1,615	45	987,700	213,400	885,300	1,088,700	307,421,700	163.094	47,362,389

CORNISH ENGINE, RECORD FOR 1893—Continued.
WEST ENGINE.

Months.	Days.	Pumping.			Coal Consumed.		Gallons of Water Pumped.	Height in feet and decimals.	Duty.	
		Hrs.	Min.	Stroke*.	Raising Steam.	Pumping.				Total.
March	28	256	30	145,300	45,900	127,500	173,400	46,641,300	159,568	48,815,717
April.....	30	276	35	163,950	38,700	139,200	177,900	52,627,950	159,580	50,455,580
June.....	27	446	25	260,900	19,500	223,200	242,700	83,748,900	162,786	51,080,524
August	23	302	15	174,200	27,900	163,500	191,400	55,918,200	167,068	47,783,963
October	17	230	15	134,500	26,400	126,000	152,400	43,174,500	160,636	46,031,278
November	22	272	45	153,800	32,400	153,600	186,000	49,369,800	160,552	43,155,806
Totals and averages	147	1,784	45	1,032,650	190,900	933,000	1,123,800	331,480,650	161,698	48,043,385

CORNISH ENGINE, RECORD FOR 1893—Continued.
BOTH ENGINES.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	T. tal.			
East Engine	150	1,615	45	967,700	213,400	885,300	1,096,700	307,421,700	163,094	47,362,399
West Engine	147	1,784	45	1,052,650	190,800	933,000	1,123,800	331,480,650	161,686	48,043,395
Totals and averages	297	3,400	30	1,990,350	404,200	1,818,300	2,222,500	638,902,350	162,386	47,719,702

SCHEDULE,
Showing the Distribution of Water for each Day and Month in the
Year 1893.

IN HIGH SERVICE DISTRICT.

Months.	Gallons of water pumped by East Cornish Engine.	Gallons of water pumped by West Cornish engine.	Gallons Pumped.	
			Per Month.	Average per day.
January	53,767,500	.....	53,767,500	1,734,435
February	49,129,050	.....	49,129,050	1,754,609
March.....	.....	46,641,300	46,641,300	1,504,558
April .....	.....	52,627,950	52,627,950	1,754,265
May.....	65,660,550	.....	65,660,550	2,118,082
June.....	.....	83,748,900	83,748,900	2,791,630
July.....	58,534,350	.....	58,534,350	1,888,205
August .....	.....	55,918,200	55,918,200	1,803,913
September	28,488,750	.....	28,488,750	949,625
October .....	.....	43,174,500	43,174,500	1,392,726
November .....	.....	49,369,800	49,369,800	1,645,660
December.....	51,841,500	.....	51,841,500	1,691,661
Totals and averages.....	307,421,700	331,480,650	638,902,350	1,750,417

SCHEDULE,

Showing the Total and Average Quantities of Water Pumped each Year by the High Service Pumping Engines.

Year.	Gallons Distributed.		Per Cent. of Increase.
	Per Year.	Average per day.	
1886.....	207,975,900	565,797	.....
1887.....	124,355,400	340,699	.....
1888.....	127,324,650	347,881	27.1
1889.....	173,532,600	475,431	36.29
1890.....	218,328,150	598,159	25.81
1891.....	339,008,100	928,789	55.27
1892.....	406,016,850	1,109,335	19.77
1893.....	638,902,350	1,750,417	57.604

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
36 inch.	West.	Gordon	From south end of south curve at West Clinton street to 95 ft. south of Bridge	990		
36 inch.	North.	Old River	{ From west 36 in. cross in front of north engine house to north end of west curve at Taylor street.....	386		
36 inch.	West.	Taylor	{ From north end of west curve at Old River street to south end of south curve at Twenty-Third avenue.....	898		
36 inch.	North.	Twenty-third	{ From south end of south curve at Taylor street to south end of south curve at Waverly avenue.....	2,510		
36 inch.	West.	Waverly	{ From south end of south curve at Twenty-Third avenue to south end of south curve at West Clinton street.....	720		
36 inch.	North.	West Clinton	{ From south end of south curve at Waverly avenue to south end of south curve at Gordon avenue.....	1,121	6,625	
20 inch.	S. E.	Public Square	From 32 ft. east of Ontario street east around monument.....	218	218	Re-laid.
16 inch.	West.	Becker	From 16 in. pipe in St. Clair street to 79 feet south of Superior street.....	3,248		
16 inch.	West.	E. Madison	From 79 ft. south of Superior street to 16 in. cross in Hough avenue.....	4,604		
16 inch.	West.	Marquette	From 16 in. pipe in Lake street to north line of St. Clair street.....	1,458		
16 inch.	North.	St. Clair	From 16 in. valve in Marquette street to 16 in. pipe in Becker avenue.....	4,165		
16 inch.	West.	Scranton	From 6 ft. north of south line of Clark avenue to 34 ft. south of Valentine street	2,540		
16 inch.	South.	Franklin	From 38 in pipe in Gordon avenue west.....	53	15,064	
12 inch.	North.	Urainard	From 16 in. pipe in Scranton avenue east.....	65		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
12 inch.	South	Franklin.....	From 36 in. pipe in Gordon avenue east to connect with 12 in. pipe.....	21		
12 inch.	North	Infrmary alley.....	From 16 in. pipe in Scranton avenue west.....	33		
12 inch.	North	Meyer avenue.....	From 16 in. pipe in Scranton avenue west.....	33		
12 inch.	North	Twenty-Third.....	From 36 in. pipe in 23d avenue to connect with 8 in. pipe in Waverly.....	17		
12 inch.	West	Waverly.....	From 36 in. pipe in Waverly avenue to connect with 8 in. pipe in Detroit.....	16		
12 inch.	North	Payne avenue.....	From 19½ feet east of Hazard street to 10 in. pipe in Oliver street.....	721	906	
10 inch.	East	Alabama.....	From 8 in. pipe in Payne avenue north to connect.....	4		
10 inch.	West	Becker.....	From 16 in. pipe in Becker avenue to 8 in. pipe in Superior street.....	14		
10 inch.	West	Canal.....	From 491 ft. north of south line Factory street north.....	199		
10 inch.	East	E. Madison.....	From 8 in. pipe in Wade Park avenue to 10 in. pipe in Wade Park avenue.....	55		
10 inch.	North	Euclid.....	From 148 ft. east of Rosedale to 248 ft. east of Monroe avenue.....	1,739		
10 inch.	East	Gordon.....	From pipe in Clark avenue south.....	299		
10 inch.	East	Gordon.....	From pipe in Franklin avenue to Cross in Fir.....	792		
10 inch.	East	Lyman avenue.....	From pipe in Euclid avenue to pipe in Crawford avenue.....	1,932		
10 inch.	East	Oliver.....	From 12 in. pipe in Payne avenue south.....	53		
			<i>Forward</i>			
						4 in. to 10 in. relaid.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
10 inch.	North...	St. Clair.....	From 16 in. pipe in St. Clair street to 8 in. pipe in Oxford.....	14		
10 inch.	North...	St. Clair.....	From 16 in. pipe in St. Clair street to 8 in. pipe in E. Madison.....	14		
10 inch.	North...	St. Clair.....	From 16 in. pipe in St. Clair street to 6 in. pipe in Merkel avenue.....	16		
10 inch.	North...	St. Clair.....	From 16 in. pipe in St. Clair street to 6 in. pipe in Hoyt avenue.....	19		
10 inch.	West...	Seneca.....	From 16 in. pipe in Ohio street to 6 in. pipe in Stone's Levee.....	1,563		
10 inch.	South...	Valentine.....	From 16 in. pipe in Senanton to 8 in. pipe in Scranton.....	19		
10 inch.	North...	Wade Park avenue.....	From 16 in. pipe in E. Madison avenue to 10 in. pipe in E. Madison.....	16		
10 inch.	West...	Willson avenue.....	From 16 in. pipe in St. Clair street to 10 in. pipe in Willson avenue.....	19		
10 inch.	West...	Willson avenue.....	{ From 10 in. pipe connecting with 16 inch pipe in St. Clair street to pipe in } Corry street.....	529	7,296	
8 inch.	East...	Ansel avenue.....	From pipe in Edmunds street to 385 ft. north of Talbot street.....	682		
8 inch.	South...	Clark.....	From pipe in Ridge avenue to pipe in Wenham.....	2 039		
8 inch.	South...	Crawford avenue.....	From Parkwood street to Lakeview avenue.....	3,016		
8 inch.	North...	Division.....	From 17 ft. west of east line Water Works lot west to 8 in. pipe.....	68		
8 inch.	West...	Doan.....	From 130 ft. north of Hathaway street north.....	6J		
8 inch.	East...	E. Madison.....	From 8 in. pipe in St. Clair street to 6 ft. north of St. Clair street.....	68		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
8 inch.	East	E. Madison	<i>Forward</i>	24		
8 inch.	South	E. Prospect	From pipe in Wade Park avenue to south line of Wade Park avenue	712		
8 inch.	North	Fleet	From 143 ft. east of Giddings to 134 ft. east of Euclid Place	2,513		
8 inch.	South	Frankfort	From pipe in Petrie street to west line Weimer street	144		
8 inch.	East	Genesee	From 8 in. pipe in Seneca street east to connect	1,114		
8 inch.	East	Genesee	From 24 ft. south of Wade Park avenue to 191 ft. north of Linwood avenue	671		
8 inch.	East	Gordon	From 6 ft. north of Hough avenue to 95 ft. south of Stanley street	888		
8 inch.	East	Gordon	From pipe in Pear street to pipe in W. Madison avenue	314		
8 inch.	East	Gordon	From pipe in Colgate street to north line of Lorain street	22		
8 inch.	East	Gordon	From cross in Fir street south to connect	1,869		
8 inch.	South	Hough	From north line Detroit street north	36		
8 inch.	East	Monroe avenue	From pipe in Dunham avenue to west line Dunham	52		
8 inch.	South	Ohio	From pipe in Euclid avenue to the south line of Euclid avenue	257		
8 inch.	East	Oliver	From 8 in. T in Stone's Levee east	30		
8 inch.	North	Payne	From pipe in Payne avenue to north line of Payne avenue	406		
8 inch.	North	Payne	From 340 ft. east of Muirson east to connect	663		
			From pipe in Dodge street to 4 in. pipe in Handy street			
			<i>Forward</i>			

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
8 inch.	North...	Payne.....	From 6 in. pipe in Handy street to 14 ft. west of N. Perry street.....	268		
8 inch.	North...	Payne.....	From 10 in. pipe in Oliver street to pipe in Sterling avenue.....	1,360		
8 inch.	North...	Payne.....	From 13 ft. west of the east line of Lawrence to pipe in Douglass.....	481		Relaid.
8 inch.	West....	Public Square W. S.....	From 8 in. pipe in Superior street to 8 in. pipe in Frankfort street.....	267		{ 8 in. to 8 in. relaid.
8 inch.	North...	Quincy.....	From pipe in Oakdale street to 109 ft. west of Streater avenue.....	788		
8 inch.	North...	Rockwell.....	From pipe in Wood street to pipe in Ontario street.....	579		{ 4 in. to 8 in. relaid.
8 inch.	North...	Rockwell.....	From 8 in. pipe in west side Public Square east to connect.....	18		Relaid.
8 inch.	East....	Rosedale.....	From pipe in Crawford street to 61 ft. south of Beulah street.....	1,349		
8 inch.	South...	St. Clair.....	From 24 ft. west of Seneca street to 4 ft. east of Seneca street.....	127		{ 4 in. to 8 in. relaid.
8 inch.	South...	St. Clair.....	From pipe in Erie street west.....	89		{ 4 in. to 8 in. relaid.
8 inch.	East....	Scranton.....	From 12 in. pipe in Brainard avenue to 6 in. pipe in cranton avenue.....	15		
8 inch.	East....	Scranton.....	From 10 in. pipe in Valentine street to 6 in. pipe in V _a entine street.....	14		{ 6 in. to 8 in. relaid.
8 inch.	East....	Seneca.....	From north line of Lake street to 4 in. pipe in Summit street.....	325		{ 4 in. to 8 in. relaid.
8 inch.	West....	Seneca.....	From 8 in. pipe 6 ft. south of Summit street north to angle in Seneca street.....	148		
8 inch.	East....	Seneca.....	From south line Lake street to north line of St. Clair street.....	616		{ 4 in. to 8 in. relaid.
8 inch.	South...	Superior.....	From pipe at Hodge avenue to pipe in Smiley avenue.....	590		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—(Continued.)

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
<i>Forward</i>						
8 inch.	South.	Superior.....	From west line of Almira street to 24 ft. east of west line Parkwood.....	748		
8 inch.	South.	Summit.....	From pipe in Bond street to west line Erie street.....	521		
8 inch.	West.	Willson.....	From 8 in. pipe in St. Clair street to 10 in. pipe in St. Clair street.....	45		
8 inch.	West.	Wood.....	From north line Superior street to 3 ft. south of Rookwell street.....	198	23,674	
6 inch.	South.	"A".....	From 6 in. pipe in "B" street to the west line of "B" street.....	31		
6 inch.	North.	Aberdeen.....	From 52 ft. west of Woolsey street west.....	245		
6 inch.	West.	Adrian.....	From pipe in Superior street to pipe in Churchhill street.....	395		
6 inch.	West.	Almira.....	From pipe in Superior street to north line Superior street.....	52		
6 inch.	East.	Alum.....	From 622 ft. south of Frontier street south.....	254		
6 inch.	East.	"B".....	From pipe in "A" street to pipe in "D" street.....	850		
6 inch.	South.	Bading.....	From pipe in Independence street east.....	795		
6 inch.	North.	Bailey.....	From pipe in Burton street to 12 ft. east of Burton street.....	36		
6 inch.	South.	Beckman.....	From pipe in Bolton avenue to 12 ft. east of the west line of Oakdale.....	775		
6 inch.	East.	Beech.....	From pipe in Scovill avenue to pipe in Woodland avenue.....	1,273		{ 4 in. to 6 in. re-laid.
6 inch.	North.	Bellflower.....	From 468 ft. west of Rosedale west.....	200		
<i>Forward</i>						

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
6 inch.	North.	Berg.....	<i>Forward.</i> From 3 ft. west of Cross street to the east line of Cross.	65		{ 29 ft. of 4 in. taken out.
6 inch.	South.	Blaine.....	From 817 ft. west of Crawford street west.	324		
6 inch.	East.	Burton.....	From 223 ft. north of south line of Train street to 24 ft. north of Clark avenue	1,448		6 in. relaid.
6 inch.	North.	Bragg.....	From pipe in Willson avenue to pipe in Verona street.	389		
6 inch.	South.	Bridges.....	From pipe in Gordon avenue east to connect.	236		
6 inch.	South.	Brinsmade.....	From pipe in Ridge avenue west.	371		
6 inch.	East.	Buckeye.....	From pipe in Kelley street south.	294		
6 inch.	South.	Buckley.....	From pipe in Harbor street to pipe in Myrtle street.	421		
6 inch.	South.	"C".....	From pipe in "B" street west.	319		
6 inch.	East.	Calumet.....	From pipe in Payne avenue to south line Payne avenue.	50		
6 inch.	South.	Cable.....	From 1,053 ft. east of Broadway east.	209		
6 inch.	East.	Cemetery.....	From north line Scovill avenue to pipe in Outhwaite street.	701		
6 inch.	North.	Chestnut.....	From 8 in. pipe in Erie street to east line of Erie street.	35		{ 4 in. to 6 in. relaid.
6 inch.	South.	Churchill.....	From 123 ft. east of Doan street to 261 ft. east of Adrian street.	566		
6 inch.	East.	Collister.....	From pipe in St. Clair street to south line St. Clair street	45		
6 inch.	West.	Commonwealth.....	From pipe in Hough avenue north.	342		
			<i>Forward</i>			

LOW SERVICE DISTRICT --SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.--Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6 inch.	South	Cory	From pipe in Genesee avenue to west line of Genesee avenue.....	42		
6 inch.	West	Callison	From pipe in Crawford street to 116 ft. north of Knowlton street.....	984		
6 inch.	South	"D"	From pipe in "B" street east.....	108		
6 inch.	East	Davidson	From north line Central Viaduct north.....	10		
6 inch.	East	Davidson	From 528 ft. south of Central Viaduct south.....	24		
6 inch.	East	Davis	From north line of Lorain street to 24 ft. south of Evergreen street.....	725		
6 inch.	South	Deering	From east line Mariner street east.....	103		
6 inch.	South	Detroit	From 74 ft. west of Hanover street to 12 feet east of west line of State street.....	446		Relaid.
6 inch.	East	Delaware	From pipe in Payne avenue north.....	15		
6 inch.	South	Donald	From pipe in Malden street to 60 ft. west of Higgins street.....	489		
6 inch.	East	Douglass	From 760 ft. south of Payne ave. to 12 ft. south of north line of Perkins ave.....	370		
6 inch.	West	E. End avenue	From 10 in. pipe in Euclid avenue to 12 ft. west of Colman street.....	473		
6 inch.	West	East View	From south line Dover street north.....	172		
6 inch.	South	Ehart	From pipe in Bolton avenue to 12 ft. east of west line of Oakdale street.....	779		
6 inch.	West	Elm avenue	From pipe in Crawford street to pipe in Hazel street.....	410		
6 inch.	North	Ensign	From pipe in Kinsman street to west line Kinsman street.....	25		{ 4 in. to 6 in. relaid.
			<i>Forward</i>			

LOW SERVICE DISTRICT - SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893--Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
6 inch.	North.	Essex.	<i>Forward</i>.....	.....	.....	.....
6 inch.	East.	Essex.	From pipe in Milford street to pipe in Gauge street	509	.....	.....
6 inch.	East.	Essex.	From pipe in Francis street to 8 ft. south of Morris street.....	685	.....	.....
6 inch.	East.	Essex.	From pipe in Washington street to pipe in Detroit street.....	428	.....	.....
6 inch.	South.	Frankfort.	From 8 in. pipe in Seneca street to 6 ft. west of Seneca street	69	.....	} 4 in. to 6 in. re-laid.
6 inch.	South.	Frankfort.	From 8 in. pipe in Alum street to pipe in Gilbert street.....	482	.....
6 inch.	South.	Frankfort.	From 8 in. pipe in Barton street to east line of Burton street.....	24	.....	.....
6 inch.	East.	Frankfort.	From 79 ft. north of Palm street to pipe in Palm street.....	103	.....	.....
6 inch.	West.	Frankfort.	From pipe in E. Prospect street to pipe in Euclid avenue	865	.....	.....
6 inch.	West.	Frankfort.	From pipe in Dille street to pipe in Martin street.....	369	.....	.....
6 inch.	West.	Frankfort.	From 114 ft. south of Stanton street to 97 ft. north of Stanton street.....	281	.....	.....
6 inch.	West.	Frankfort.	From south line of E Prospect street to 107 ft. north of E. Prospect street.....	187	.....	.....
6 inch.	West.	Frankfort.	From pipe in Crawford street, north	389	.....	.....
6 inch.	North.	Frankfort.	From 1044 ft. west of Ridge avenue, west.....	101	.....	.....
6 inch.	North.	Frankfort.	From 283 ft. east of Ewald street, east.....	149	.....	.....
6 inch.	North.	Frankfort.	From pipe in Ontario street to 8 ft. east of Wood street	644	.....	} 4 in. to 6 in. re-laid.
6 inch.	East.	Frankfort.	From 8 ft. north of Superior street, north	588	.....
			<i>Forward</i>.....	.....	.....	.....

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6 inch.	South	Hathaway	From west line Almira street to 104 ft. west of Parkwood avenue.....	667		
6 inch.	South	Hasel	From pipe in Oakland street to 95 ft. east of Elm street.....	589		
6 inch.	West	Harkness	From north line of Hough avenue, south to connect.....	679		
6 inch.	North	Harrison	From 10 in. pipe in Seneca street to 8 ft. west of Seneca street.....	33		
6 inch.	North	Harrison	From 6 in. pipe in Seneca street to 6 ft. east of Seneca street.....	40		
6 inch.	South	Hecker	From 189 ft. east of East Madison avenue, west.....	46		
6 inch.	South	Hill	From pipe in Cros street, east.....	43		{ 3 in. to 6 in. relaid.
6 inch.	East	Hickox	From south line of Euclid avenue, south.....	280		{ 4 in. to 6 in. relaid.
6 inch.	South	Hough Place	From 338 ft. east of Amesbury avenue, east.....	104		
6 inch.	South	Howlett	From pipe in Gauge street to 4 ft. west of east line of Alaska.....	357		
6 inch.	West	Humboldt	From pipe in Orange street to north line of Orange street.....	36		
6 inch.	East	Huntington	From pipe in Superior street to pipe in Euclid avenue.....	1,948		{ 4 in. to 6 in. relaid.
6 inch.	East	Ions	From 531 ft. north of Storer avenue, south.....	350		
6 inch.	South	Itaska	From pipe in Rosedale avenue to pipe in Callison street.....	731		
6 inch.	South	Kelley	From 4 in. pipe in Buckeye street to 6 in. pipe in Buckeye street.....	15		
6 inch.	South	Knowlton	From pipe in Rosedale avenue to pipe in Callison street.....	729		
			<i>Forward</i>			

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
6 inch.	North.	Essex.	<i>Forward</i> From pipe in Milford street to pipe in Gauge street	509		
6 inch.	East.	Esra	From pipe in Francis street to 8 ft. south of Morris street.	685		
6 inch.	East.	Flint	From pipe in Washington street to pipe in Detroit street.	428		
6 inch.	South.	Frankfort	From 8 in. pipe in Seneca street to 6 ft. west of Seneca street	69		} 4 in. to 6 in. relaid.
6 inch.	South.	Frontier	From 8 in. pipe in Alum street to pipe in Gilbert street.	482		
6 inch.	South.	Fras	From 8 in. pipe in Burton street to east line of Burton street.	24		
6 inch.	East.	Fras	From 79 ft. north of Palm street to pipe in Palm street.	108		
6 inch.	West.	Genesee	From pipe in E. Prospect street to pipe in Euclid avenue	865		
6 inch.	West.	Gibbs	From pipe in Dille street to pipe in Martin street.	369		
6 inch.	West.	Giddings	From 114 ft. south of Stanton street to 97 ft. north of Stanton street.	281		
6 inch.	West.	Giddings	From south line of E Prospect street to 107 ft. north of E. Prospect street.	187		
6 inch.	West.	Glendale.	From pipe in Crawford street, north	389		
6 inch.	North.	Grace.	From 1044 ft. west of Ridge avenue, west.	101		
6 inch.	North.	Grand	From 283 ft. east of Ewald street, east	149		
6 inch.	North.	Hamilton	From pipe in Ontario street to 8 ft. east of Wood street	644		} 4 in. to 6 in. relaid.
6 inch.	East.	Hampden.	From 8 ft. north of Superior street, north	598		
			<i>Forward</i>			

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6 inch.	South...	Hathaway	From west line Almira street to 104 ft. west of Parkwood avenue.....	667		
6 inch.	South...	Hazel.....	From pipe in Oakland street to 95 ft. east of Elm street.....	589		
6 inch.	West....	Harkness	From north line of Hough avenue, south to connect.....	679		
6 inch.	North...	Harrison.....	From 10 in. pipe in Seneca street to 8 ft. west of Seneca street.....	33		
6 inch.	North...	Harrison.....	From 6 in. pipe in Seneca street to 6 ft. east of Seneca street.....	40		
6 inch.	South...	Hecker	From 189 ft. east of East Madison avenue, west.....	46		
6 inch.	South...	Hill.....	From pipe in Cros street, east.....	43		{ 3 in. to 6 in. relaid.
6 inch.	East....	Hickox	From south line of Euclid avenue, south.....	280		{ 4 in. to 6 in. relaid.
6 inch.	South...	Hough Place.....	From 338 ft. east of Amesbury avenue, east.....	104		
6 inch.	South...	Howlett.....	From pipe in Gauge street to 4 ft. west of east line of Alaska.....	357		
6 inch.	West....	Humboldt.....	From pipe in Orange street to north line of Orange street.....	36		
6 inch.	East....	Huntington.....	From pipe in Superior street to pipe in Euclid avenue.....	1,948		{ 4 in. to 6 in. relaid.
6 inch.	East....	Ions.....	From 531 ft. north of Storer avenue, south.....	350		
6 inch.	South...	Itaska.....	From pipe in Rosedale avenue to pipe in Cullison street.....	731		
6 inch.	South...	Kelley	From 4 in. pipe in Buckeye street to 6 in. pipe in Buckeye street.....	15		
6 inch.	South...	Knowlton.....	From pipe in Rosedale avenue to pipe in Cullison street.....	729		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
6 inch.	West....	Knox.....	<i>Forward</i> From 4 in. pipe in Mayfield to south line of Mayfield street.....	24		
6 inch.	South..	Lawnview.....	From 851 ft. east of Gliddings avenue, east.....	280		
6 inch.	East....	Malden.....	From pipe in Donald street, north to connect.....	42		
6 inch.	West....	Marcy avenue.....	From 105 ft. north of Blaine street to 137 ft. south of Blaine street.....	282		
6 inch.	South..	Mayfield.....	From west line of Knox street, east.....	98		
6 inch.	South..	Melrose.....	From pipe in Genesee avenue to west line Genesee avenue.....	41		
6 inch.	West....	Melvin.....	From pipe in Crawford street, north.....	988		
6 inch.	South..	Mons.....	From pipe in Dike street to pipe in Cemetery street.....	334		
6 inch.	South..	Moulton.....	From pipe in Rosedale avenue, east.....	688		
6 inch.	South..	Mound.....	From pipe in Seabrook street to east line of Seabrook street.....	31		
6 inch.	East....	Minnesota.....	From pipe in Payne avenue to the north line of Payne avenue.....	30		
6 inch.	West....	Oak land.....	From pipe in Hazel avenue to Beulah street.....	1,681		
6 inch.	East....	Oak place.....	From pipe in Prospect street to 4 ft. south of Euclid avenue.....	453		
6 inch.	South..	Ohio.....	From 10 in. pipe in Seneca street to 6 ft. east of Seneca st.....	51		
6 inch.	South..	Olive court.....	From pipe in Olive street, east.....	457		
6 inch.	South..	Outhwaite.....	From pipe in Dike street to pipe in Cemetery street.....	333		
			<i>Forward</i>			{ 2 in. pipe abandoned.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Totals.	Remarks.
			<i>Forward</i>			
6 inch.	West...	Palliser.....	From pipe in Fleet street, north to connect.....	30		
6 inch.	East..	Palm.....	From pipe in Fross avenue, north.....	383		
6 inch.	West...	Park place.....	From pipe in Rockwell street to north line Rockwell.....	27		
6 inch.	West...	Parkwood.....	From pipe in Superior street, south.....	28		
6 inch.	.....	Payne.....	At 340 ft. e. of Mairson from 8 in. pipe in Payne ave. to 6 in. pipe in Walnut st.....	54		Relaid.
6 inch.	South...	Peach.....	From pipe in Burton street to west line of Burton street.....	86		{ 4 in. to 6 in. relaid.
6 inch.	West...	Pearl.....	From pipe in Detroit street to north line of Detroit street.....	38		
6 inch.	West...	Petrie.....	From pipe in Fleet street, north to connect.....	30		
6 inch.	East...	Poplar.....	From 821 ft. north of Storer avenue south to 281 ft. north of Storer.....	560		
6 inch.	South...	Prairie.....	From pipe in Scranton to 10 ft. west of Scranton.....	52		
6 inch.	South...	Prince.....	From pipe in Ridge avenue, east.....	565		
6 inch.	West...	Princeton.....	From 297 ft. south of Hough avenue to 292 ft. north of Euclid.....	1,373		
6 inch.	.....	Proposed street.....	From 77 ft. east of Lancel street from pipe in Euclid avenue to N. L. Euclid.....	30		
6 inch.	East...	Public square-east side..	From pipe in Rockwell street to south line of Rockwell.....	38		
6 inch.	South...	Reeves.....	From east line of Altamonte, west.....	521		
6 inch.	South...	Ruth.....	From pipe in Dike street to pipe in Cemetery street.....	334		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6 inch.	West.....	Scott.....	From pipe in Scott alley, north.....	13		
6 inch.	South.....	Scovill.....	From pipe in Dike to pipe in Cemetery street.....	334		
6 inch.	West.....	Seabrook.....	From pipe in Mound street to pipe in Fleet street.....	1,616		
6 inch.	South.....	Sioux.....	From pipe in Woolsey street to 50 ft. west of Ansel avenue.....	984		
6 inch.	North.....	Starkweather.....	From pipe in South street to pipe in University street.....	151		
6 inch.	West.....	State.....	From 12 ft. south of Detroit street to 5 ft. north of Detroit street.....	84		} 4 in. to 6 in. relaid.
6 inch.	East.....	Stella Place.....	From pipe in Woodland avenue to north line Woodland avenue.....	34		
6 inch.	South.....	Stones Levee.....	From pipe in Seneca street to 6 ft. east of Seneca street.....	37		
6 inch.	North.....	South.....	From pipe in University street to pipe in Starkweather avenue.....	112		
6 inch.	South.....	Talbot.....	From pipe in Ansel avenue, west.....	227		
6 inch.	West.....	Taylor.....	From north line of Clin on street to north line of Franklin avenue.....	425		
6 inch.	West.....	Tilden.....	From 835 ft. north of Euclid avenue, north.....	108		
6 inch.	South.....	Train.....	From 6 in. pipe in Burton street to west line of Burton street.....	36		
6 inch.	North.....	Trowbridge.....	From 139 ft. west of Louis street, west.....	610		
6 inch.	West.....	University.....	From pipe in South street to north line of South street.....	27		
6 inch.	West.....	University.....	From pipe in Starkweather avenue to 139 ft. south of Lynn street.....	579		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6 inch.	East	Verona	From pipe in Bragg street to Reno street	457		
6 inch.	North	Walworth	From 6 in. pipe in Seneca street to 6 ft. west of Seneca street	43		
6 inch.	East	Washington	From pipe in Winslow street, north	262		
6 inch.		{ West Side Pumping Station	From pipe in Division street to west chimney of north boiler house	349		Laid in 1892.
6 inch.	South	Wentworth	From pipe in Ridge avenue, east	400		
6 inch.	East	Woolsey	From 47 ft. north of Pulaski street to Donald street	698		
		For Hydrants		180	46,604	
4 inch.	West	Alley off Orange	From pipe in Orange street to north line of Orange street	37		
4 inch.	West	Commodore	From pipe in Payne avenue to north line Payne avenue	30		
4 inch.	East	Commodore	From pipe in Payne avenue to north line Payne avenue	30		
4 inch.	South	Fountain Al.	From pipe in Seneca street to east line Seneca street	39		
4 inch.	West	Fulton Ct.	From pipe in Lorain street to cross in Fulton alley	302		
4 inch.	South	High	From 108 feet east of Sheriff street, east	80		4 in. relaid.
4 inch.	South	La Mollie	From pipe in Berlin street, west	75		
4 inch.	East	Odell Al.	From pipe in Orange street to south line Orange street	26		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
4 inch.	West.	Miami alley.....	From north line of Bolivar street to south line of Huron street.....	388		{ 3 in. pipe taken out.
4 inch.	South.	Noble alley.....	From pipe in Seneca street to east line Seneca street.....	39		
4 inch.	North.	Perkins place.....	From pipe in Willson avenue, east.....	368		
4 inch.	South.	Russell place.....	From pipe in Russell avenue, east.....	233		
4 inch.	South.	Scott alley.....	From pipe in Scott street, east.....	198		
4 inch.	South.	Scranton place.....	From 6 in. pipe in Scranton avenue to east line Scranton avenue.....	25		
4 inch.		West Side pump house.....	{ From a "T", 13 ft. south of the southeast corner of south building to the south door of Boiler House.....	154		
4 inch.		West Side pump house.....	{ From "T" in 8 in. pipe 15 ft. south of Old River street to north door of Boiler House.....	169		
4 inch.	West.	Wheller place.....	From 6 in. pipe in Central avenue, north to connect with 3 in. pipe.....	183		
4 inch.		For hydrants.....		8,132	5,518	
3 inch.	South.	Orton court.....	From 184 ft. east of Kilfoyle street, east.....	33		
3 inch.		For hydrants.....		20	53	
			Total feet of all sizes.....		105,962	

LOW SERVICE DISTRICT—SCHEDULE OF PIPE TAKEN OUT AND ABANDONED IN 1893.

Size taken out or abandoned.	Size of pipe relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
20 inch	20 inch	Public Square	From 32 ft. east of Ontario street, east	6		Taken out.
20 inch	20 inch	Public Square	From 29 ft. west of Public Square, west	55		Taken out.
20 inch	20 inch	Public Square	From 38 ft east of Ontario street, east.	103		{ Under monu- { m't ab'nd'd
8 inch		Broadway	From pipe in Aetna street, north	603	164	{ Ch'g'd to { high serv. dis.
8 inch	8 inch	Payne	From 13 ft. west of east line Lawrence st. to pipe in Douglass street.	465		Abandoned.
8 inch	8 inch	Rockwell	From 8 in. pipe in west side Public Square, east.	27		Abandoned.
6 inch		Ae na	From pipe in Broadway, east.	237	1,066	{ Changed to { high serv. dis.
6 inch	6 inch	Burton	From 223 ft. north of south line Train street to 24 ft. north of Clark ave.	1,448		Taken out.
6 inch	6 inch	Detroit	From 74 ft. west of Hanover street to 12 ft. east of west line State street.	446		Taken out.
6 inch	6 inch	Payne	At 340 ft. east of Muirson street from 8 in. pipe in Payne avenue to 6 in. pipe in Walnut street	60		{ Taken out & { Abandoned.
6 inch	8 inch	Seranton	From 10 in. pipe in Valentine street to 6 in. pipe in Valentine street	14		Taken out.
4 inch	6 inch	Hecch	From pipe in Scovill avenue to pipe in Woodland ave.	1,273	2,206	Taken out.
4 inch	6 inch	Berg	From 3 ft. west of Cross street to pipe in Cross street.	29		Taken out.
4 inch	10 inch	Canal	From 491 ft. north of south line Factory street, north	199		Taken out.
4 inch	6 inch	Chestnut	From 4 in. pipe in Erie street to east line Erie street	55		Abandoned.
4 inch	6 inch	Esign.	From pipe in Kinsusan street to west line Kinman street.	25		Taken out.

LOW SERVICE DISTRICT—SCHEDULE OF PIPE TAKEN OUT AND ABANDONED IN 1893—Continued.

Size taken out or abandoned.	Size of pipe out or relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
4 inch		Erie	From south line Euclid avenue to 10 in. cross in Prospect street pipe	480		Abandoned.
4 inch	6 inch	Frankfort	From 4 in. pipe in Seneca street to 6 ft. west of Seneca street.	66		Abandoned.
4 inch	6 inch	Frankfort	From 8 in. pipe in Public square, west	104		Abandoned.
4 inch	6 inch	Hamilton	From pipe in Ontario street to 8 ft. east of Wood street	644		{ 588 ft. 'k' out { 56 ft. 'ab' and 'n' d
4 inch	6 inch	Hickox	From south line Euclid avenue, south	280		Taken out.
4 inch	4 inch	High	From 108 ft. east of Sheriff street, east.	80		Taken out.
4 inch	6 inch	Huntington	From pipe in Superior street to pipe in Euclid avenue.	1,948		Taken out.
4 inch	6 inch	Pearl	From pipe in Detroit street to north line of Detroit street	38		Taken out.
4 inch	8 inch	Public Square	From 8 in. pipe in Superior street to 4 in. pipe in Frankfort street	281		{ 251 ft. 'k' out { 40 ft. 'ab' and 'n' d
4 inch	8 inch	Rockwell	From pipe in Wood street to pipe in Ontario street.	579		{ 568 ft. 'ab' and 'n' d { 48 ft. 'k' out
4 inch	8 inch	Rockwell	From 8 in. pipe in Rockwell to old 4 in. pipe in Public Square.	20		Taken out.
4 inch	8 inch	St. Clair	From 24 ft. west of Seneca street 4 ft. east of Seneca street.	127		Taken out.
4 inch	8 inch	St. Clair	From pipe in Erie street to west line Erie	41		Taken out.
4 inch	8 inch	St. Clair	From west line of Erie street, west	48		Abandoned.
4 inch	8 inch	Seneca	From north line Lake street to 4 in. pipe in Summit street.	326		Abandoned.
4 inch	8 inch	Seneca	From south line Lake street to north line St. Clair street.	616		Taken out.
4 inch	8 inch	Seneca	From south line St. Clair street to north line Superior street.	585		Abandoned.
4 inch	6 inch	State	From 12 ft. south of Detroit street to 5 ft. north of Detroit street.	84		Taken out.
4 inch	8 inch	Wood	From north line of Superior street, north.	17		Taken out.

LOW SERVICE DISTRICT—SCHEDULE OF PIPE TAKEN OUT AND ABANDONED IN 1893.—Continued.

Size taken out or abandoned.	Size of pipe relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
4 inch		With hydrants.....		60		
3 inch	6 inch	Hill.....	Total 4 in. abandoned and taken out.....	43	8,025	Taken out.
3 inch	4 inch	Miami.....	From pipe in Cross street, east.....	283		Taken out.
3 inch		Taken out with hydrants.....	From south line Huron street, south.....	264		
2 inch	6 inch	Oak Place.....	From pipe in Prospect, north.....	300	300	Abandoned.

WATER WORKS.

LOW SERVICE DISTRICT.—TOTAL FEET OF PIPE IN USE DEC. 31, 1893.

Diameter of Pipe.	36 inch.	30 inch.	24 inch.	20 inch.	16 inch.	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.	3 inch.	
Previous to 1893.....	53,122	60,409	12,363	11,115	25,095	19,247	94,414	248,753	974,049	171,612	14,516	1,734,686
Laid in 1893.....	6,625	.....	.....	218	15,068	906	7,296	23,674	46,604	5,518	53	105,962
Totals.....	59,747	60,409	12,363	11,333	40,163	20,153	101,710	272,427	1,020,653	177,130	14,569	1,840,657
Taken out and abandoned in 1893.....	.....	.....	.....	164	.....	.....	.....	1,045	2,205	8,025	590	12,079
Total in use Dec. 31, 1893.....	59,747	60,409	12,363	11,169	40,163	20,153	101,710	321,382	1,018,448	169,105	13,979	1,828,578
			183,651						1,644,724			

RECAPITULATION.

INCREASED MILEAGE OF PIPE DURING THE YEAR 1893.

36 inch pipe.....	1 mile	1,345 feet.
20 "		54 "
16 "	2 miles	4,508 "
Total	4 miles	627 feet of supply main.
12 inch pipe.....	0 mile	906 feet.
10 "	1 "	2,016 "
8 "	4 "	1,450 "
6 "	8 "	2,150 "
4 "	0 "	-2,507 " (Decrease of 2,507 ft.)
3 "	0 "	- 537 " " " 537 "
Total.....	13 miles	3,496 feet distributing main.
4 miles	627 feet of supply mains.	
13 " 3,496 "	distributing mains.	
17 miles	4,123 feet of water main, increase during the year 1893.	

HIGH SERVICE DISTRICT--SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
12 inch.	West...	Murray Hill.....	From pipe in Cedar avenue to pipe in Mayfield street.....	3,778	3,778	
10 inch.	West....	Broadway.....	From 45 ft. north of Baxter street to pipe in Aetna street.....	585		} 4 in. pipe { abandoned.
10 inch.	North..	Cedar.....	From 18 ft. west of Doan Brook to 18 ft. east of Doan Brook.....	68		
10 inch.	North..	Cedar.....	From 12 ft. west of Murray Hill to 14 ft. east of pipe in Murray Hill.....	46		
10 inch.	South..	Mayfield.....	From pipe in Fairview to pipe in E. End avenue.....	874		
10 inch.	West....	Turney.....	From pipe in Tioga street, south.....	75		
10 inch.	West....	Woodland Hills.....	From pipe in Roy street to pipe in Easton street.....	313		
10 inch.	West....	Woodland Hills.....	From pipe in Richmond street on the east, south.....	164		
10 inch.	West....	Woodland Hills.....	At Heins street from 10 in. pipe in Woodland Hills to air chamber.....	15		
10 inch.	South..	Way.....	From pipe in Woodland Hills avenue to Sawyer street.....	534	2,684	
8 inch.	E. & W.	Ambleside.....	From pipe in Fairmount street to pipe in Cedar avenue.....	1,689		} Changed from { low to high { service.
8 inch.	East....	Broadway.....	From pipe in Aetna street, north.....	603		
8 inch.	North..	Fairmount.....	From pipe in Ambleside to west line Ambleside.....	37		
8 inch.	South..	Fleet.....	From pipe in Marcelline avenue to 218 ft. west of Ledyard street.....	570		
8 inch.	West....	Marcelline.....	From pipe in Harvard street to pipe in Claassen street.....	518		
			<i>Forward</i>			

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893.—(Continued.)

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
8 inch.	East.....	Monroe avenue.....	<i>Forward</i>	1,243		
8 inch.	East.....	Sawyer.....	From pipe in Mayfield Road, north.....	390		
8 inch.	West.....	Tod.....	From pipe in Union street to pipe in Crane street.....	883		
8 inch.	South.....	Union.....	From pipe in Forman street to 1st street.....	145	6,028	
			From 6 ft. west of the east line of Homewood, east.....			
6 inch.	West.....	Adelbert.....	From pipe in Murray Hill, north.....	32		(Changed from low to high service.)
6 inch.	North.....	Aetna.....	From pipe in Broadway, east.....	237		
6 inch.	North.....	Aetna.....	From pipe in Echo street, east.....	147		
6 inch.	South.....	Blue Rock place.....	From pipe in Murray Hill, west.....	29		
6 inch.	South.....	Canton.....	From pipe in Wilcox street to 34 ft. east of Elmwood.....	283		
6 inch.	West.....	Coltman.....	From pipe in Mayfield road to pipe in East End avenue.....	1,252		
6 inch.	North.....	Cornell.....	From pipe in Murray Hill, west.....	29		
6 inch.	West.....	Compton.....	From 213 ft. north of Chasen street, north.....	72		
6 inch.	South.....	Crane.....	From pipe in Sawyer street, east.....	348		
6 inch.	East.....	E. End avenue.....	From pipe in Mayfield road to pipe in Coltman street.....	1,185		
6 inch.	West.....	Elmwood.....	From pipe in Canton street to 38 ft. south of Worley street.....	640		
			<i>Forward</i>			

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1893—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6 inch.	South.	Eastman.	From pipe in Woodland Hills avenue, east	700		
6 inch.	West	Fecho.	From pipe in Aetus street, north	712		
6 inch.	S. & W.	Fairview.	From pipe in Murray Hill to pipe in Mayfield road	1,362		
6 inch.	South.	Homestead.	From pipe in Broadway, west	24		
6 inch.	South.	Indians	From pipe in Marcelline avenue, east	457		
6 inch.	North	Kennedy	From pipe in Oakdale street to 695 ft. east of Orwig street	1,361		
6 inch.	West	Ledyard	From pipe in Fleet street, north to connect	94		
6 inch.	North	Lyford.	From pipe in Marcelline avenue, west	545		
6 inch.	West	McConnell	From 303 ft. south of Covington street, south	97		
6 inch.	East	Oakdale	From pipe in Cumberland street to 115 ft. north of Kennedy street	441		
6 inch.	West	Reede	From pipe in Claassen street, north to connect	194		
6 inch.	South	Richmond	From pipe in Sawyer street, west	64		
6 inch.	South.	Richmond	From pipe in Sawyer street to 743 ft. east of Woodland Hills	1,370		
6 inch.	South.	Tiloga.	From pipe in Warner road to pipe in Turney avenue	1,179		
6 inch.	West	Wageman.	From pipe in Aetus street, north	531		
6 inch.	West	Wageman	From end of pipe 640 ft. south of Union street, south	77		
			<i>Forward</i>			

WATER WORKS.

HIGH SERVICE DISTRICT—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet.	Total.	Remarks.
6 inch.	South	Way	<i>Forward</i> From pipe in Woodland Hills avenue, east	708		
6 inch.		For hydrants		20	14,240	
4 inch.	West	S. Prospect	From pipe in Fullerton street, north	295		
4 inch.		For hydrants		972	1,267	
			Total feet of all sizes		28,007	
4 inch.	West	Broadway	From 46 ft. north of Baxter street, north	384		Pipe abandoned.
					384	

HIGH SERVICE DISTRICT.—TOTAL FEET OF PIPE IN USE DEC. 31, 1893.

Diameter of Pipe.	36 inch.	30 inch.	24 inch.	20 inch.	16 inch.	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.	3 inch.	Total.
Previous to 1883.....		6,308	2,814	6,070	3,378	12,573	22,030	16,304	82,586	7,280		168,222
Laid in 1883.....						3,788	2,684	6,028	14,240	1,267		28,007
Totals		16,308	2,814	6,070	3,378	16,161	24,723	22,422	96,826	8,547		197,229
Taken out and abandoned in 1893.....										384		384
Total in use Dec. 31, 1893.....		16,308	2,814	6,070	3,378	16,161	24,723	22,422	96,826	8,133		196,835
			28,570					168,265				

RECAPITULATION.

INCREASED MILEAGE OF PIPE DURING THE YEAR 1893.

12 inch pipe	0 miles	3,798 feet.
10 "	0 "	2,684 "
8 "	1 "	748 "
6 "	2 "	3,680 "
4 "	0 "	873 "
Total	5 miles	1,213 feet of distributing main.

**MILEAGE OF PIPE IN LOW AND HIGH SERVICE
DISTRICTS.**

Diameter of Pipe.	Low Service District.		High Service District.		Both Districts.		
	Miles.	Feet.	Miles.	Feet.	Miles.	Feet.	
36	11	1,667	11	1,667	40 miles and 1,221 feet of supply main.
30	11	2,329	3	468	14	2,797	
24	2	1,803	.....	2,814	2	4,617
20	2	609	1	790	3	1,399	
16	7	3,203	0	3,378	8	1,301	
12	3	4,313	3	321	6	4,634	
10	19	1,390	4	3,603	23	4,993	
8	60	4,532	4	1,302	65	554	
6	192	4,688	18	1,786	211	1,194	
4	32	145	1	2,853	33	2,998	
3	2	3,419	2	3,419	343 miles and 1,953 feet of distributing mains.
Total.	346	1,698	37	1,475	383	3,173	

Total increased mileage of pipe in both districts, 23 miles and 56 feet.

WATER WORKS.

SCHEDULE OF PIPE LOWERED IN BOTH DISTRICTS IN 1893.

Size.	Street.	Between What Points.	Feet.
6 inch.	Burton	From south line of Loring street to 28 ft. north of Freas street.	2,270
6 inch.	Cook	From pipe in Burton street, west.	50
6 inch.	Cross	From south line of Broadway to south line of Berg street.	508
6 inch.	Clinton	From pipe in Liberty street to 60 ft. east of Taylor street.	1,080
8 inch.	Central	From pipe in New street to Lodge avenue.	705
6 inch.	Chestnut	From east line of Erie street, east.	50
6 inch.	Detroit	From Pearl street to 47 feet east of Tyler alley.	430
8 inch.	E. Prospect	From 160 ft. west of Bolton avenue to 470 ft. east of Lincoln avenue.	704
6 inch.	Hill	From 38 ft. east of Commercial street to pipe in Cross st.	760
6 inch.	Harkness	From 519 ft. south of Hough avenue, south.	145
6 inch.	High	From Sheriff street to Middle street.	220
6 inch.	Liberty	From south line of Detroit street to north line of Franklin avenue.	700
6 inch.	Logan	From Euclid avenue, south.	1,023
6 inch.	Perry	From pipe in Woodland avenue to 45 ft. south of north line of Broadway.	988
6 inch.	Rockwell	From 12 ft. west of Erie street to 12 ft. east of Bond street.	458
6 inch.	Sterling avenue	From Euclid avenue to Cedar avenue.	1,107
8 inch.	St. Clair	From 180 ft. west of Hodge avenue to pipe in Malden street.	1,050
		<i>Forward</i>	

SCHEDULE OF PIPE LOWERED IN BOTH DISTRICTS IN 1893.—Continued.

Size.	Street.	Between What Points.	Feet.
8 inch.	St. Clair.....	<i>Forward</i>.....	.....
8 inch.	Seneca.....	From west line of Woolsey street to Ansel avenue....	640
4 inch	Tyler Alley.....	From north line of St. Clair street to pipe in St. Clair street.....	35
4 inch.	Terrace.....	From pipe in Detroit street to north line of Detroit street.....	38
6 inch.	Wade avenue.....	From pipe in Detroit street to south line of Detroit street....	32
		From Pearl street, west.....	150
		Total.....	13,103

13,103 feet of pipe lowered, equal to 2 miles 2,543 feet.
 689 service connections were lowered on these streets, equal to 12,470 feet.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch..	East	Ansel	17	North of Talbot street	
1	4 inch..	East	Ansel	391	North of Talbot street.....	
1	4 inch..	East	Ansel.....		At Hough avenue extension.....	
1	4 inch..	North	A berdeen.....	52	West of Woolsey street	
1	4 inch..	West	Adrian	158	South of Superior street.....	
1	4 inch..	East	Alum	862	South of Frontier street	
1	4 inch..	North	Brainard		At Soranton avenue	
1	4 inch..	East	B	232	South of A street	
1	4 inch..	East	B	5	South of C street	
1	4 inch..	South.....	Bading	187	East of Independence street.....	
1	4 inch..	South.....	Bading	137	East of Kimmel	
1	4 inch..	South.....	Bading	427	East of Kimmel	
1	4 inch..	North.....	Bailey		At Burton	
1	4 inch..	South.....	Beckman	205	East of Bolton avenue.....	
1	4 inch..	South.....	Beckman	261	West of Oakdale avenue	
1	4 inch..	South.....	Beckman	8	West of Oakdale avenue	
1	4 inch..	North.....	Bellflower	665	West of Rosedale avenue.....	
1	4 inch..	South.....	Blaine	214	East of Maroy avenue.....	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1898—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	North	Bragg.....	175	West of Willson avenue.....	
C 1	3 to 4 in.	North	Broadway.....	888	West of Perry street.....	
1	4 inch...	South	Brinsmade.....	235	West of Ridge avenue.....	
1	4 inch...	South	Brinsmade.....	522	West of Ridge avenue.....	
1	4 inch...	South	Brinsmade.....	831	West of Ridge avenue.....	
1	4 inch...	East	Buckeye.....	266	South of Kelley.....	
1	4 inch...	East	Burton.....	285	South of Lorain.....	
1	4 inch...	East	Burton.....	587	South of Lorain.....	
1	4 inch...	North	Central avenue.....	115	West of First avenue.....	
1	4 inch...	North	Central avenue.....	182	West of Lodge avenue.....	
1	4 inch...	North	Central avenue.....	135	West of Richland avenue.....	
1	4 inch...	South	C.....	285	West of B street.....	
1	4 inch...	East	Canal.....	494	North of south line of Factory street.....	
1	4 inch...	East	Canal.....	679	North of south line of Factory street.....	
1	4 inch...	South	Clark avenue.....	265	West of Ridge avenue.....	
1	4 inch...	North	Champlain.....	379	East of Canal street.....	
1	4 inch...	South	Clark avenue.....	499	West of Ridge avenue.....	
1	4 inch...	South	Clark avenue.....		At Hope.....	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	South...	Clark avenue.....	28	West of Gaib street.....	
1	4 inch...	South.....	Clark avenue.....	8	West of Bigelow street.....	
1	4 inch...	South.....	Clark avenue.....	29	West of Young street.....	
1	4 inch...	South.....	Crawford.....		At Parkwood street.....	
1	4 inch...	South.....	Crawford.....		At Cullison street.....	
1	4 inch...	South.....	Crawford.....		At Crawford court.....	
1	4 inch...	South.....	Crawford.....	18	West of Rosedale avenue.....	
1	4 inch...	South.....	Crawford.....	201	East of Rosedale avenue.....	
1	4 inch...	South.....	Crawford.....	5	West of Oakland avenue.....	
1	4 inch...	North.....	Crawford.....	12	East of Elm street.....	
1	4 inch...	South.....	Crawford.....	162	West of Lake View avenue.....	
1	4 inch...	South.....	Crawford.....		At Lake View avenue.....	
1	4 inch...	South.....	Cable.....	1,262	East of Broadway.....	
1	4 inch...	South.....	Churchill.....	127	East of Dean street.....	
1	4 inch...	South.....	Churchill.....	61	West of Adrian street.....	
1	4 inch...	South.....	Churchill.....	257	East of Adrian street.....	
C 1	3 to 4 in.	South.....	Clinton.....		At Liberty street.....	
1	4 inch...	South.....	Clinton.....	230	East of Liberty street.....	
1	4 inch...	South.....	Clinton.....	141	West of Taylor street.....	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
C 1	3 to 4 in.	North	Clinton		At Taylor street	
1	4 inch	South	Clinton	234	East of Taylor street	
C 1	3 to 4 in.	South	Clinton	456	East of Taylor street	
1	4 inch	South	Clinton	194	West of Kentucky street	
1	4 inch	South	Clinton	12	East of Kentucky street	
1	4 inch	South	Clinton	181	West of Duane street	
1	4 inch	West	Commonwealth	294	North of Hough avenue	
1	4 inch	West	Cross	198	North of Hill street	
1	4 inch	South	Croton	63	East of Peru street	
1	4 inch	West	Cullison	217	North of Crawford street	
1	4 inch	West	Cullison		At Itaska street	
1	4 inch	West	Cullison		At Knowlton Street	
1	4 inch	West	Cullison	112	North of Knowlton street	
1	4 inch	South	"D"	85	East of "B" street	
1	4 inch	East	Davis	354	North of Lorain	
1	4 inch	East	Davis	28	South of Evergreen street	
1	4 inch	South	Deering	49	East of Mariner street	
1	4 inch	South	Detroit	172	West of Hanover Street	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.	Detroit	16	West of Pearl street	
1	4 inch.	South.	Detroit		At Terrace street	
1	4 inch.	South.	Detroit	275	East of Duane street	
1	4 inch.	South.	Detroit	284	West of Duane street	
1	4 inch.	North.	Daisy	300	West of Pearl street	
1	4 inch.	North.	Daisy	180	East of Brooklyn street	
1	4 inch.	North.	Daisy	180	West of Brooklyn street	
1	4 inch.	South.	Douse		At Broadway	
1	4 inch.	South.	Donald	31	West of Collister street	
1	4 inch.	South.	Donald	54	West of Higgins street	
1	4 inch.	East.	Douglas	57	North of Perkins street	
1	6 inch.	West.	East Madison	98	South of Superior street	
1	6 inch.	West.	East Madison		At Wade Park avenue	
1	6 inch.	West.	East Madison	25	North of Hough avenue	
1	4 inch.	West.	East End avenue	82	South of Newell street	
1	4 inch.	West.	East End avenue		At Coltman street	
1	4 inch.	North.	East River	473	North of St. Clair street	
1	4 inch.	West.	East View	107	North of Dower street	

LOW SERVICE DISTRICT--SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893--Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch	South	Ehart street	205	East of Bolton avenue	
1	4 inch	South	Ehart street	478	East of Bolton avenue	
1	4 inch	South	Ehart street	1	West of Oakdale street	
1	4 inch	West	El'n street	151	North of Hazel street	
1	4 inch	North	Euclid avenue		At Luceil street	
1	4 inch	North	Euclid avenue		At Lyman avenue	
1	4 inch	North	Euclid avenue	232	East of Lyman avenue	
1	4 inch	North	Euclid avenue		At East End avenue	
1	4 inch	North	Euclid avenue		At Monroe avenue	
1	4 inch	North	Euclid avenue	242	East of Monroe avenue	
1	4 inch	North	Essex street	250	East of Milford street	
1	4 inch	East	Exra street	91	South of Francis street	
1	4 inch	East	Exra street	250	North of Maurice street	
1	4 inch	East	Exra street	4	South of Maurice street	
1	4 inch	North	Fleet street		At Malmesbury street	
1	4 inch	North	Fleet street		At Jirousek street	
1	4 inch	North	Fleet street		At Seabrook street	
1	4 inch	North	Fleet street		At South Willson avenue	

WATER WORKS.

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch	North	Fleet street		At Ackley street	
C 1	3 to 4 in.	North	Frankfort street		At Seneca street	
1	6 inch	East	Flint street		At north line Viaduct	
1	6 inch	West	Flint street		At south line Viaduct	
1	4 inch	South	Frontier street	213	East of Alum street	
1	3 inch	West	Fulton court		At north line Fulton alley	
1	4 inch	East	Gordon avenue		At Eilon street	
1	4 inch	East	Gordon avenue		At Colgate street	
1	4 inch	East	Gordon avenue	260	South of Clark avenue	
1	4 inch	East	Gordon avenue	201	North of Detroit street	
1	4 inch	East	Gordon avenue	540	North of Detroit street	
1	4 inch	East	Gordon avenue	17	North of Hermann street	
1	4 inch	East	Gordon avenue	319	North of Hermann street	
1	4 inch	East	Gordon avenue	622	North of Hermann street	
1	4 inch	East	Gordon avenue	986	North of Hermann street	
1	4 inch	East	Genesee street	24	South of Wade Park avenue	
1	4 inch	East	Genesee street	301	South of Wade Park avenue	
1	4 inch	East	Genesee street	144	North of Cory avenue	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	East	Genesee	98	South of Wade Park avenue	
1	4 inch...	East	Genesee	161	North of Hough avenue	
1	4 inch...	West	Genesee		At Euclid avenue	
1	4 inch...	West	Genesee	196	South of Euclid avenue	
1	4 inch...	West	Genesee	253	North of East Prospect street	
1	4 inch...	North	Gallup		At Broadway	
1	4 inch...	West	Gibbs	177	South of Dille street	
1	4 inch...	West	Giddings	93	North of Stanton street	
1	4 inch...	West	Glendale	9	North of Crawford road	
1	4 inch...	West	Glendale	359	North of Crawford road	
1	4 inch...	North	Grace	931	West of Ridge avenue	
1	4 inch...	North	Grand	408	East of Ewall street	
1	4 inch...	North	Hamilton		At Ontario street	
1	4 inch...	North	Hamilton	241	East of Ontario street	
U 1	3 to 4 in.	South	Hamilton		At Wood street	
1	4 inch...	East	Hampden	302	North of Superior street	
1	4 inch...	East	Hampden	602	North of Superior street	
1	4 inch...	South	Hathaway	304	East of Almira street	

WATER WORKS.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	South.....	Hathaway	108	West of Parkwood street.....	
1	4 inch...	South.....	Hazel.....	242	East of Oakland street.....	
1	4 inch...	South.....	Hasel.....	91	East of Elm street.....	
1	4 inch...	West.....	Harkness.....	283	South of Hough avenue.....	
1	4 inch...	North.....	Harrison		At Seneca street.....	
1	4 inch...	South.....	Hill.....	199	East of Commercial street.....	
C 1	3 to 4 in.	South.....	Hill.....	286	West of Cross street	
1	4 inch...	South.....	Hill.....	12	West of Cross street.....	
1	4 inch...	West.....	Huntington.....	26	South of Prospect street.....	
C 1	3 to 4 in.	East.....	Huntington.....	175	South of Superior street.....	
C 1	3 to 4 in.	East.....	Huntington.....	223	South of Payne avenue.....	
C 1	3 to 4 in.	East.....	Huntington.....	499	South of Payne avenue.....	
1	4 inch...	East.....	Huntington.....	468	North of Euclid avenue.....	
1	4 inch...	South.....	Hough Place	438	East of Amesbury avenue.....	
1	4 inch...					
1	4 inch...					
1	4 inch...	East.....	Ions.....	185	North of Storer avenue	
1	4 inch...	South.....	Itaska.....		At Rosedale street.....	
1	4 inch...	South.....	Itaska.....	354	West of Rosedale street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893.—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.	Knowlton.		At Rosedale avenue.	
1	4 inch.	South.	Knowlton.	363	West of Rosedale avenue.	
1	4 inch.	East.	Lyman.	265	North of Euclid avenue.	
1	4 inch.	East.	Lyman.	581	North of Euclid avenue.	
1	4 inch.	East.	Lyman.	884	North of Euclid avenue.	
1	4 inch.	East.	Lyman.	241	South of Wade Park avenue.	
1	4 inch.	East.	Lyman.		At Wade Park avenue.	
1	4 inch.	East.	Lyman.		At Crawford Road.	
1	4 inch.	East.	Lawnview.	252	West of East Madison avenue.	
1	4 inch.	East.	Liberty.	159	South of Clinton street.	
1	4 inch.	East.	Livingston.	470	North of Central avenue.	
C 1	3 to 4 in.	East.	Livingston.	685	North of Central avenue.	
1	3 inch.	North.	Lamoille.	66	West of Berlin street.	
1	4 inch.	South.	Mayfield.	52	East of Knox street.	
1	4 inch.	West.	Melvin.	6	North of Crawford Road.	
1	4 inch.	West.	Melvin.	318	North of Crawford Road.	
1	4 inch.	West.	Melvin.	641	North of Crawford Road.	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	West.....	Melvin.....	948	North of Crawford Road.....	
1	4 inch...	South.....	Mona.....		At Cemetery street.....	
1	4 inch...	South.....	Moulton.....	215	East of Rosedale avenue.....	
1	4 inch...	South.....	Moulton.....	665	East of Rosedale avenue.....	
1	4 inch...	West.....	Oakland.....		At Hazel street.....	
1	4 inch...	West.....	Oakland.....	290	North of Crawford Road.....	
1	4 inch...	West.....	Oakland.....	352	South of Moulton street.....	
1	4 inch...	West.....	Oakland.....	6	South of Moulton street.....	
1	4 inch...	West.....	Oakland.....	11	South of Heulah street.....	
1	4 inch...	South.....	Ohio.....	233	East of Stone's Levee.....	
1	4 inch...	South.....	Orange.....	244	East of Cross street.....	
1	4 inch...	South.....	Orange.....	212	West of Odell alley.....	
1	4 inch...	South.....	Orange.....	261	West of Perry street.....	
1	4 inch...	South.....	Orange.....	280	East of Perry street.....	
1	4 inch...	South.....	Orange.....	200	West of Irving street.....	
1	4 inch...	South.....	Orange.....	190	East of Jackson street.....	
1	4 inch...	South.....	Olive Court.....	431	East of Olive street.....	
1	4 inch...	South.....	Outhwaite.....		At Cemetery street.....	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
C 1	3 to 4 in.	North	Clinton		At Taylor street	
1	4 inch	South	Clinton	224	East of Taylor street	
C 1	3 to 4 in.	South	Clinton	456	East of Taylor street	
1	4 inch	South	Clinton	198	West of Kentucky street	
1	4 inch	South	Clinton	12	East of Kentucky street	
1	4 inch	South	Clinton	181	West of Duane street	
1	4 inch	West	Commonwealth	284	North of Hough avenue	
1	4 inch	West	Cross	168	North of Hill street	
1	4 inch	South	Croton	63	East of Peru street	
1	4 inch	West	Cullison	217	North of Crawford street	
1	4 inch	West	Cullison		At Itaska street	
1	4 inch	West	Cullison		At Knowlton Street	
1	4 inch	West	Cullison	112	North of Knowlton street	
1	4 inch	South	"D"	85	East of "B" street	
1	4 inch	East	Davis	354	North of Lorain	
1	4 inch	East	Davis	28	South of Evergreen street	
1	4 inch	South	Deering	49	East of Mariner street	
1	4 inch	South	Detroit	172	West of Hanover Street	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South	Detroit	16	West of Pearl street	
1	4 inch.	South	Detroit		At Terrace street	
1	4 inch.	South	Detroit	275	East of Duane street	
1	4 inch.	South	Detroit	284	West of Duane street	
1	4 inch.	North	Daisy	300	West of Pearl street	
1	4 inch.	North	Daisy	180	East of Brooklyn street	
1	4 inch.	North	Daisy	180	West of Brooklyn street	
1	4 inch.	South	Douse		At Broadway	
1	4 inch.	South	Donald	31	West of Collister street	
1	4 inch.	South	Donald	54	West of Higgins street	
1	4 inch.	East	Douglas	57	North of Perkins street	
1	6 inch.	West	East Madison	90	South of Superior street	
1	6 inch.	West	East Madison		At Wade Park avenue	
1	6 inch.	West	East Madison	25	North of Hough avenue	
1	4 inch.	West	East End avenue	82	South of Newell street	
1	4 inch.	West	East End avenue		At Colfman street	
1	4 inch.	North	East River	473	North of St. Clair street	
1	4 inch.	West	East View	107	North of Dower street	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch	South	Ehart street	205	East of Bolton avenue	
1	4 inch	South	Ehart street	478	East of Bolton avenue	
1	4 inch	South	Ehart street	1	West of Oakdale street	
1	4 inch	West	Elm street	151	North of Hazel street	
1	4 inch	North	Euclid avenue		At Luceil street	
1	4 inch	North	Euclid avenue		At Lyman avenue	
1	4 inch	North	Euclid avenue	232	East of Lyman avenue	
1	4 inch	North	Euclid avenue		At East End avenue	
1	4 inch	North	Euclid avenue		At Monroe avenue	
1	4 inch	North	Euclid avenue	242	East of Monroe avenue	
1	4 inch	North	Essex street	250	East of Milford street	
1	4 inch	East	Esra street	91	South of Francis street	
1	4 inch	East	Esra street	250	North of Maurice street	
1	4 inch	East	Esra street	4	South of Maurice street	
1	4 inch	North	Fleet street		At Malmesbury street	
1	4 inch	North	Fleet street		At Jirousek street	
1	4 inch	North	Fleet street		At Seabrook street	
1	4 inch	North	Fleet street		At South Willson avenue	

WATER WORKS.

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	North...	Fleet street...		At Ackley street.....	
C1	3 to 4 in.	North.....	Frankfort street.....		At Seneca street.....	
1	6 inch...	East.....	Flint street.....		At north line Visaduct.....	
1	6 inch...	West.....	Flint street.....		At south line Visaduct.....	
1	4 inch...	South.....	Frontier street.....	213	East of Alum street.....	
1	3 inch...	West.....	Fulton court.....		At north line Fulton alley.....	
1	4 inch...	East.....	Gordon avenue.....		At Ellen street.....	
1	4 inch...	East.....	Gordon avenue.....		At Colgate street.....	
1	4 inch...	East.....	Gordon avenue.....	260	South of Clark avenue.....	
1	4 inch...	East.....	Gordon avenue.....	201	North of Detroit street.....	
1	4 inch...	East.....	Gordon avenue.....	540	North of Detroit street.....	
1	4 inch...	East.....	Gordon avenue.....	17	North of Hermann street.....	
1	4 inch...	East.....	Gordon avenue.....	319	North of Hermann street.....	
1	4 inch...	East.....	Gordon avenue.....	622	North of Hermann street.....	
1	4 inch...	East.....	Gordon avenue.....	986	North of Hermann street.....	
1	4 inch...	East.....	Genesee street.....	24	South of Wade Park avenue.....	
1	4 inch...	East.....	Genesee street.....	301	South of Wade Park avenue.....	
1	4 inch...	East.....	Genesee street.....	144	North of Cory avenue.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch	East	Genesee	98	South of Wade Park avenue	
1	4 inch	East	Genesee	161	North of Hough avenue	
1	4 inch	West	Genesee		At Euclid avenue	
1	4 inch	West	Genesee	198	South of Euclid avenue	
1	4 inch	West	Genesee	253	North of East Prospect street	
1	4 inch	North	Gallup		At Broadway	
1	4 inch	West	Gibbs	177	South of Dille street	
1	4 inch	West	Giddings	93	North of Stanton street	
1	4 inch	West	Glendale	9	North of Crawford road	
1	4 inch	West	Glendale	359	North of Crawford road	
1	4 inch	North	Grace	431	West of Ridge avenue	
1	4 inch	North	Grand	408	East of Ewall street	
1	4 inch	North	Hamilton		At Ontario street	
1	4 inch	North	Hamilton	241	East of Ontario street	
C 1	3 to 4 in.	South	Hamilton		At Wood street	
1	4 inch	East	Hampden	302	North of Superior street	
1	4 inch	East	Hampden	602	North of Superior street	
1	4 inch	South	Hathaway	306	East of Almirra street	

WATER WORKS.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	South.....	Hathaway	108	West of Parkwood street.....	
1	4 inch...	South.....	Hazel.....	242	East of Oakland street.....	
1	4 inch...	South.....	Hazel.....	91	East of Elm street.....	
1	4 inch...	West.....	Harkness.....	283	South of Hough avenue.....	
1	4 inch...	North.....	Harrison		At Beneca street.....	
1	4 inch...	South.....	Hill.....	189	East of Commercial street.....	
C 1	3 to 4 in.	South.....	Hill.....	286	West of Cross street.....	
1	4 inch...	South.....	Hill.....	12	West of Cross street.....	
1	4 inch...	West.....	Huntington.....	26	South of Prospect street.....	
C 1	3 to 4 in.	East.....	Huntington.....	175	South of Superior street.....	
C 1	3 to 4 in.	East.....	Huntington.....	223	South of Payne avenue.....	
C 1	3 to 4 in.	East.....	Huntington.....	499	South of Payne avenue.....	
1	4 inch...	East.....	Huntington.....	468	North of Euclid avenue.....	
1	4 inch...	South.....	Hough Place	438	East of Amesbury avenue.....	
1	4 inch...	South.....				
1	4 inch...	South.....				
1	4 inch...	East.....	Ions.....	185	North of Storer avenue	
1	4 inch...	South.....	Itaska.....		At Rosedale street.....	
1	4 inch...	South.....	Itaska.....	354	West of Rosedale street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893.—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	South	Knowlton.....		At Rosedale avenue.....	
1	4 inch...	South	Knowlton.....	363	West of Rosedale avenue.....	
1	4 inch...	East	Lyman.....	265	North of Euclid avenue.....	
1	4 inch...	East	Lyman.....	581	North of Euclid avenue.....	
1	4 inch...	East	Lyman.....	884	North of Euclid avenue.....	
1	4 inch...	East	Lyman.....	241	South of Wade Park avenue.....	
1	4 inch...	East	Lyman.....		At Wade Park avenue.....	
1	4 inch...	East	Lyman.....		At Crawford Road.....	
1	4 inch...	East	Lawnview.....	252	West of East Madison avenue.....	
1	4 inch...	East	Liberty.....	159	South of Clinton street.....	
1	4 inch...	East	Livingston.....	470	North of Central avenue.....	
C 1	3 to 4 in	East	Livingston.....	665	North of Central avenue.....	
1	3 inch...	North	Lamoille.....	66	West of Berlin street.....	
1	4 inch...	South	Mayfield.....	52	East of Knox street.....	
1	4 inch...	West	Melvin.....	6	North of Crawford Road.....	
1	4 inch...	West	Melvin.....	318	North of Crawford Road.....	
1	4 inch...	West	Melvin.....	641	North of Crawford Road.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	West.....	Melvin.....	948	North of Crawford Road.....	
1	4 inch...	South.....	Mona.....		At Cemetery street.....	
1	4 inch...	South.....	Moulton.....	215	East of Rosedale avenue.....	
1	4 inch...	South.....	Moulton.....	665	East of Rosedale avenue.....	
1	4 inch...	West.....	Oakland.....		At Hazel street.....	
1	4 inch...	West.....	Oakland.....	290	North of Crawford Road.....	
1	4 inch...	West.....	Oakland.....	352	South of Moulton street.....	
1	4 inch...	West.....	Oakland.....	6	South of Moulton street.....	
1	4 inch...	West.....	Oakland.....	11	South of Heulah street.....	
1	4 inch...	South.....	Ohio.....	233	East of Stone's Levee.....	
1	4 inch...	South.....	Orange.....	244	East of Cross street.....	
1	4 inch...	South.....	Orange.....	212	West of Odell alley.....	
1	4 inch...	South.....	Orange.....	261	West of Perry street.....	
1	4 inch...	South.....	Orange.....	230	East of Perry street.....	
1	4 inch...	South.....	Orange.....	200	West of Irving street.....	
1	4 inch...	South.....	Orange.....	190	East of Jackson street.....	
1	4 inch...	South.....	Olive Court.....	434	East of Olive street.....	
1	4 inch...	South.....	Outhwaite.....		At Cemetery street.....	

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	North.....	Payne avenue.....	340	East of Mairson street.....	
1	4 inch...	North.....	Payne avenue.....		At Huntington street.....	
1	4 inch...	North.....	Payne avenue.....	169	West of Oliver street.....	
1	4 inch...	North.....	Payne avenue.....	108	East of Oliver street.....	
1	4 inch...	West.....	Princeton street.....	1,131	South of Hough avenue.....	
1	4 inch...	West.....	Princeton street.....	1,452	South of Hough avenue.....	
1	4 inch...	West.....	Princeton street.....	1,662	South of Hough avenue.....	
1	4 inch...	West.....	Princeton street.....	190	South of Hough avenue.....	
1	4 inch...	West.....	Princeton street.....	820	South of Hough avenue.....	
1	4 inch...	North.....	Payne avenue.....	52	East of Minnesota.....	
1	4 inch...	East.....	Palm street.....	277	North of Freas.....	
1	4 inch...	East.....	Palm street.....	361	North of Freas.....	
1	4 inch...	South.....	Prince street.....	258	East of Ridge.....	
1	4 inch...	South.....	Prince street.....	539	East of Ridge.....	
1	4 inch...	South.....	Pearl street.....		At Viaduct.....	
1	3 inch...	North.....	Perkins place.....	313	East of Willson avenue.....	
1	4 inch...	North.....	Prospect street.....	212	West of Oak place.....	
1	4 inch...	East.....	Poplar street.....	265	North of Storer avenue.....	
1	4 inch...	East.....	Poplar street.....	431	North of Storer avenue.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	6 inch...	East.....	West side of Public Square.....	13	North of Superior street.....	
C 1	3 to 6 in.	West.....	West side of Public Square.....	28	South of Frankfort street.....	
1	4 inch...	West.....	Perry street.....	102	South of Woodland avenue.....	
1	6 inch...	East.....	Perry street.....		At Orange street.....	
C 1	3 to 4 in.	East.....	Perry street.....		At Broadway.....	
1	4 inch...	North.....	Quincy street.....	251	East of Oakdale street.....	
1	4 inch...	North.....	Quincy street.....	549	East of Oakdale street.....	
1	4 inch...	North.....	Quincy street.....	117	West of Streator avenue.....	
1	4 inch...	South.....	Reeves street.....	188	West of Altamonte street.....	
1	3 to 6 in.	North.....	Reeves street.....	466	East of Altamonte street.....	
C 1	3 to 6 in.	North.....	Rockwell street.....		At Park place.....	
1	4 inch...	East.....	Rosedale street.....	216	North of Crawford road.....	
1	4 inch...	East.....	Rosedale street.....	30	North of Moulton street.....	
1	4 inch...	East.....	Rosedale street.....	294	North of Moulton street.....	
1	4 inch...	South.....	Ruth street.....		At Cemetery street.....	
1	3 inch...	South.....	Russell place.....	202	East of Russell avenue.....	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	6 inch.	North.	St. Clair.		At Wilson avenue.	
1	6 inch.	North.	St. Clair.		At Merkel street.	
1	6 inch.	North.	St. Clair.		At Becker avenue.	
1	4 inch.	South.	St. Clair.		At Collister street.	
1	4 inch.	West.	Seabrook.	310	South of Mound street.	{ Valve and pipe were in.
1	4 inch.	West.	Seabrook.	625	South of Mound street.	
1	4 inch.	West.	Seabrook.	987	South of Mound street.	
1	4 inch.	West.	Seabrook.	312	North of Fleet street.	
C 1	3 to 4 in.	East.	Seneca.		At North Stone's Levee.	
1	4 inch.	East.	Seneca.	150	North of Ohio street.	
C 1	3 to 4 in.	East.	Seneca.	60	South of Ohio street.	
C 1	4 to 6 in.	East.	Seneca.		At Summit street.	
1	4 inch.	West.	Seneca.		At angle 300 ft. north of Lake street.	
C 1	4 inch.	East.	Seneca.		At Fountain alley.	
1	3 to 4 in.	East.	Seneca.		At Noble street.	
1	6 inch.	West.	Seranton.	185	South of Buhner street.	
1	6 inch.	West.	Seranton.		At Valentine street.	
1	3 inch.	North.	Scott alley.	172	East of Scott street.	
1	4 inch.	South.	Simon.	6	East of Woolley street.	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch..	South.....	Simon.....	309	East of Woolsey street.....	
1	4 inch..	South.....	Simon.....	623	East of Woolsey street.....	
1	4 inch..	South.....	Simon.....	54	West of Ansel avenue.....	
1	4 inch..	South.....	Superior.....		At Superior place.....	
1	4 inch..	South.....	Superior.....	324	East of Almira street.....	
1	4 inch..	South.....	Superior.....		At Parkwood avenue.....	
1	4 inch..	South.....	Summit.....	245	East of Bond street.....	
1	4 inch..	South.....	Summit.....		At Erie street.....	
1	4 inch..	East.....	Sterling.....	205	North of Prospect street.....	
C 1	3 to 4 in.	East.....	Sterling.....	9	South of Prospect street.....	
C 1	3 to 4 in.	East.....	Sterling.....		At Sibley street.....	
1	4 inch..	South.....	Talbot.....		At Talbot court.....	
1	4 inch..	West.....	Taylor.....	152	South of Clinton street.....	
1	4 inch..	North.....	Trowbridge.....	566	West of Louis street.....	
1	4 inch..	North.....	Trowbridge.....	741	West of Louis street.....	
1	4 inch..	West.....	University.....	13	South of Starkweather avenue.....	
1	4 inch..	West.....	University.....	283	South of Starkweather avenue.....	
1	4 inch..	West.....	University.....	135	South of Lynn street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch	East	Verona street	143	North of Bragg street	
1	4 inch	East	Verona street		At Renovo street	
1	4 inch	North	Walworth street		At Seneca street	
1	4 inch	East	Washington street	172	North of Flint street	
1	4 inch		West Side Pump Station		At north door of south boiler house	
1	4 inch		West Side Pump Station		At east end of north boiler house	Set in 1892.
1	4 inch		West Side Pump Station		At west end of north boiler house	Set in 1892.
1	4 inch	West	Wheller place		At Central avenue	
1	4 inch	South	Wentworth street	374	East of Ridge avenue	
1	4 inch	East	Woolsey street		At Sowlenski street	
1	4 inch	East	Woolsey street		At Donald street	
1	4 inch	East	Wadsworth street		At Orange street	
1	4 inch	East	Willson avenue	68	South of Bragg street	{ Pipe and valve were in.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF HYDRANTS CHANGED IN 1893.

No.	Size Taken Out.	Size Net.	Side.	Street.	Feet.	Location.
1	3 inch	4 inch	North	Broadway	883	West of Perry street.
1	3 inch	3 inch	East	Detroit street	30	North of Tyler alley (taken out).
1	3 inch	4 inch	South	Clinton street		At Liberty street.
1	3 inch	4 inch	North	Clinton street		At Taylor street.
1	3 inch	4 inch	South	Clinton street	456	East of Taylor street.
1	3 inch	4 inch	East	Erie street	220	South of Euclid (taken out).
1	3 inch	3 inch	North	East River street	280	North of Main street (taken out).
1	3 inch	4 inch	North	Frankfort street		At Seneca street.
1	3 inch	4 inch	South	Hamilton street		At Wood street.
1	3 inch	4 inch	South	Hill street	286	West of Cross street.
1	3 inch	4 inch	East	Huntington street	175	South of Superior street.
1	3 inch	4 inch	East	Huntington street	223	South of Payne avenue.
1	3 inch	4 inch	East	Huntington street	499	South of Payne avenue.
1	3 inch	4 inch	East	Livingston street	685	North of Central avenue.
1	3 inch	6 inch	West	Public Square, west side	28	South of Frankfort street.
1	3 inch	4 inch	East	Perry street		At Broadway.
1	3 inch	6 inch	North	Rockwell street		At Park place.
1	3 inch	4 inch	East	Seneca street		At North Stone's Lavee.
1	3 inch	4 inch	West	Seneca street	60	South of Ohio street.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF HYDRANTS CHANGED IN 1893.—Continued.

No.	Size Taken Out.	Size Set.	Side.	Street.	Feet.	Location.
1	3 inch	4 inch	East	Seneca street		At Noble Alley.
1	3 inch	4 inch	East	Sterling avenue	9	South of Prospect street.
1	3 inch	4 inch	East	St rling avenue		At Sibley street.
22				Total taken out.		
1	4 inch	4 inch	North	Aetna street	218	East of Broadway, changed to high service.
1	4 inch	4 inch	East	Broadway	214	North of Aetna, changed to high service.
1	4 inch	4 inch	West	Burton street	425	South of Lorain st., changed to E. side of street.
1	4 inch		East	Commodore street		At north line Payne avenue (taken out).
1	4 inch	6 inch	East	Seneca street		At Summit street.
5	4 inch			Total taken out.		

WATER WORKS.

LOW SERVICE DISTRICT—SCHEDULE SHOWING HYDRANTS MOVED IN 1893.

Num-ber.	Size.	Side.	Street.	Feet.	Location.
1	4 inch...	South.....	Bridge.....	8	East of Gordon avenue, moved from 214 ft. east of Gordon avenue.....
1	4 inch...	East.....	Davidson.....	552	South of Central Viaduct, moved from 528 ft. south of Central Viaduct.....
1	4 inch...	West.....	Doan.....	191	North of Hathaway street, moved from 130 ft. north of Hathaway street.....
1	4 inch...	South.....	East Prospect.....	263	East of Euclid place, moved from 134 ft. east of Euclid place.....
1	4 inch...	South.....	East Prospect.....	13	East of Giddings avenue, moved from 143 ft. east of Giddings avenue.....
1	4 inch...	South.....	East Prospect.....	184	West of Giddings ave., moved from W. S. Giddings 107 ft. N. of E. Prospect
1	4 inch...	East.....	Genesee.....	265	South of Stanley avenue, moved from 95 ft. south of Stanley avenue.....
1	4 inch...	North.....	Grace.....	1,145	West of Ridge avenue, moved from 1,044 west of Ridge avenue.....
1	4 inch...	South.....	Hecker.....	139	East of East Madison avenue, moved from 195 ft. east of East Madison ave.
1	4 inch...	South...	Holyoke.....	892	West of Sawtell avenue, moved from 904 ft. west of Sawtell avenue.....
1	3 inch...	North.....	Orton Court.....	213	East of Kilfoyle street, moved from 190 ft. east of Kilfoyle street.....
1	4 inch...	West.....	Princeton.....	506	South of Hough avenue, moved from 292 ft. south of Hough avenue.....
1	4 inch...	West.....	Tilden.....	941	North of Euclid avenue, moved from 833 ft. north of Euclid avenue.....
1	4 inch...	North.....	Trowbridge.....	266	West of Louis street, moved from 135 ft. west of Louis street.....

CISTERNS DISCONNECTED.

Num-ber.	Street.	Location.
1	Ontario.....	At St. Clair
1	Perry.....	At Orange.
1	Gallup.....	At Broadway.

RECAPITULATION
OF FIRE HYDRANTS FOR 1893.

3 inch Hydrants set in 1893	5
4 inch Hydrants set in 1893	262
6 inch Hydrants set in 1893	15
Hydrants in use December 31st, 1892	3,652
Total	3,934
3 inch and 4 inch Hydrants taken out in 1893.....	27
Total Hydrants in use December 31st, 1893	3,907

Of 3,907 Hydrants in use, 131 are 6 inch, the balance are 4 inch and 3 inch.

HIGH SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	West	Ambleside street		At Buell place	
1	4 inch.	West	Ambleside street	250	North of Buell place	{ Changed from low services.
1	4 inch.	North	North Actna street	218	East of Broadway	
1	4 inch.	West	Broadway	346	North of Baxter street	{ Changed from low services.
1	4 inch.	East	Broadway	236	North of Actna street	
1	6 inch.	East	Broadway	508	North of Actna street	
1	4 inch.	West	Coltman street		At Mayfield road	
1	4 inch.	West	Coltman street	300	North of Mayfield road	
1	4 inch.	West	Coltman street	592	North of Mayfield road	
1	4 inch.	West	Coltman street	307	South of East End avenue	
1	6 inch.	West	Coltman street	26	South of East End avenue	
1	4 inch.	South	Crane street	322	East of Sawyer street	
1	4 inch.	East	East End avenue		At Mayfield road	
1	4 inch.	East	East End avenue	288	North of Mayfield road	
1	4 inch.	East	East End avenue	576	North of Mayfield road	
1	4 inch.	East	East End avenue	273	South of Coltman street	

HIGH SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.	Eastman street.	13	East of Woodland Hills.	
1	4 inch.	South.	Eastman street.	321	East of Woodland Hills.	
1	4 inch.	South.	Eastman street.	646	East of Woodland Hills.	
1	4 inch.	West.	Echo street.	121	North of Aetna street.	
1	4 inch.	West.	Echo street.	402	North of Aetna street.	
1	4 inch.	West.	Echo street.	694	North of Aetna street.	
1	4 inch.	West.	Elmwood street.	213	South of Canton street.	
1	4 inch.	West.	Elmwood street.	34	South of Worley street.	
1	4 inch.	South.	Fleet street.	109	West of Marcelline avenue.	
1	4 inch.	South.	Fleet street.	212	West of Ledyard street.	
1	4 inch.	West.	Fairview street.	99	North of Angle in street.	
1	4 inch.	West.	Fairview street.	428	North of Angle in street.	
1	4 inch.	West.	Fairview street.	752	North of Angle in street.	
1	4 inch.	West.	Fairview street.		At Mayfield road.	
1	4 inch.	South.	Indiana street.	263	East of Marcelline avenue.	
1	4 inch.	South.	Indiana street.	60	West of Elmwood avenue.	

HIGH SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch...	North...	Kennedy.....	203	East of Oakdale avenue.....	
1	4 inch...	North...	Kennedy.....	22	West of Orwig street.....	
1	4 inch...	North...	Kennedy.....	256	East of Orwig street.....	
1	4 inch...	North...	Kennedy.....	587	East of Orwig street.....	
1	4 inch...	North...	Kennedy.....	691	East of Orwig street.....	
1	4 inch...	North...	Lyford.....	222	West of Marcelline avenue.....	
1	4 inch...	North...	Lyford.....	567	West of Marcelline avenue.....	
1	4 inch...	West...	Marcelline.....	242	South of Harvard street.....	
1	4 inch...	West...	McConnell.....	396	South of Covington street.....	
1	4 inch...	West...	Murray Hill.....	21	South of Mayfield Road.....	
1	4 inch...	West...	Murray Hill.....	335	South of Mayfield Road.....	
1	4 inch...	West...	Murray Hill.....		At Paul street.....	
1	4 inch...	West...	Murray Hill.....		At Fairview avenue.....	
1	4 inch...	West...	Murray Hill.....	313	South of Fairview avenue.....	
1	4 inch...	West...	Murray Hill.....	234	North of Cornell street.....	
1	4 inch...	West...	Murray Hill.....	18	South of Cornell street.....	
1	4 inch...	West...	Murray Hill.....	278	North of Arey avenue.....	

HIGH SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—(Continued).

Num-ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch	West	Murray Hill	58	North of Adelbert street	
1	4 inch	West	Murray Hill		At East Highland avenue	
1	4 inch	West	Murray Hill	10	South of Blue Rock place	
1	4 inch	West	Murray Hill	20	North of Cedar avenue	
1	4 inch	West	Murray Hill		At Arroy avenue	
1	4 inch	East	Monroe		At Mayfield road	
1	4 inch	East	Monroe	344	North of Mayfield road	
1	4 inch	East	Monroe	663	North of Mayfield road	
1	4 inch	East	Monroe	997	North of Mayfield road	
1	4 inch	East	Monroe	1,107	North of Mayfield road	
1	4 inch	East	Oakdale		At Kennedy street	
1	4 inch	East	Oakdale	100	North of Kennedy street	
1	4 inch	South	Richmond	207	East of Sawyer street	
1	4 inch	South	Richmond		At Woodland Hills	
1	4 inch	North	Richmond	307	East of Woodland Hills	
1	4 inch	North	Richmond	739	East of Woodland Hills	

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.	Sawyer street.		At Crane street.	
1	4 inch.	West.	South Prospect street.	269	North of Fullerton street	
1	4 inch.	South.	Tioga street.	96	West of Waterbury street.	
1	4 inch.	South.	Tioga street.	163	East of Waterbury street.	
1	4 inch.	South.	Tioga street.	235	West of Turney street.	
1	4 inch.	South.	Tioga street.		At Turney street	
1	4 inch.	West.	Tod street.		At Chambers street.	
1	4 inch.	West.	Tod street.		At Sabert street	
1	4 inch.	West.	Tod street.		At Fleet street.	
1	4 inch.	South.	Union street.	135	East of Homewood avenue.	
1	4 inch.	West.	Wageman street.	276	North of Aetna street.	
1	4 inch.	West.	Wageman street.	501	North of Aetna street.	
1	4 inch.	West.	Wageman street.	701	South of Union street.	
1	4 inch.	South.	Way street.		At Sawyer street.	

WATER WORKS.

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1893—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.	Way street.	222	West of Woodland Hills.	
1	4 inch.	South.	Way street.	262	East of Woodland Hills.	
1	4 inch.	South.	Way street.	133	East of Orlando street.	
1	4 inch.	West.	Woodland Hills.	89	South of Richmond street.	
83						

HIGH SERVICE DISTRICT—SCHEDULE SHOWING HYDRANTS MOVED IN 1893.

Num-ber.	Size.	Side.	Street.	Feet.	Location.
1	4 inch.	West.....	Compton.....	281	North of Claassen street, moved from 269 feet north of Claassen.

RECAPITULATION
OF FIRE HYDRANTS FOR 1893.

4 inch Hydrants set in 1893.....	81
6 inch Hydrants set in 1893	2
Hydrants in use December 31st, 1892.....	406
	<hr/>
Total Hydrants in use December 31st, 1893	489
Of 489 Hydrants in use, 20 are 6 inch and 469 are 4 inch.	

HYDRANTS IN USE IN BOTH DISTRICTS
DECEMBER 31st, 1893.

In Low Service District.....	3,907
In High Service District.....	489
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In both districts.....	4,396

LOW SERVICE DISTRICT—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.

No.	Size.	Street.	Side.	Location.	Remarks.
1	36 inch.	Gordon.....	West.....	9½ ft. south of Franklin and 22 ft. 7 in. east of west line of Gordon avenue.	
1	36 inch.	Old River.....	North.....	26 ft. 4 in. east of the west line of N. Engine House.....	
1	36 inch.	Twenty-Third.....	North.....	5 feet west of Taylor, 14 ft. 8 in. south of north line of 23rd avenue.....	
1	36 inch.	Twenty-Third.....	North.....	At west line of Weddell and 17 ft. south of north line of 23rd avenue.....	
1	36 inch.	Waverly.....	West.....	At north line of West Clinton and 13 ft. 6 in. east of west line of Waverly.....	
1	36 inch.	Twenty-Third.....	North.....	19 ft. 6 in. west of Taylor street.....	Check valve.
6	36 inch.	Total.....			
1	16 inch.	Becker.....	West.....	South line of St. Clair street.....	
1	16 inch.	Becker.....	West.....	North line of Bliss street.....	
1	16 inch.	Becker.....	West.....	North line of Superior street.....	
1	16 inch.	East Madison.....	West.....	North line of Wade Park avenue.....	
1	16 inch.	East Madison.....	West.....	North line of Lena street.....	
1	16 inch.	East Madison.....	West.....	North line of Hough avenue.....	
1	16 inch.	Franklin.....	South.....	West line of Gordon avenue.....	
1	16 inch.	Marquette.....	West.....	South line of Lake street.....	
1	16 inch.	Marquette.....	West.....	North line of St. Clair street.....	
1	16 inch.	St. Clair.....	North.....	East line of Willson avenue.....	

LAW SERVICE DISTRICT SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	16 inch.	St. Clair.....	North.....	East line of Armitage street.....	
1	16 inch.	St. Clair.....	North.....	East line of Oxford street.....	
1	16 inch.	St. Clair.....	North.....	East line of Merkel street.....	
1	16 inch.	St. Clair.....	North.....	East line of Hoyt avenue.....	
1	16 inch.	Scranton.....	West.....	South line of Clark avenue.....	
1	16 inch.	Scranton.....	West.....	South line of Holmden avenue.....	
1	16 inch.	Scranton.....	West.....	South line of Valentine street.....	
17	16 inch.	Total.....			
1	12 inch.	Brainard.....	North.....	East line of Scranton avenue.....	Connection valve.
1	12 inch.	Franklin.....	North.....	37 ft. 6 in. W. of E. line of Gordon and 16 ft. 4 in. N. of S. line of Franklin.....	Connection valve.
1	12 inch.	Infirmary alley.....	North.....	West line of Scranton avenue.....	Connection valve.
1	12 inch.	Meyer.....	North.....	West line of Scranton avenue.....	Connection valve.
1	12 inch.	23rd avenue.....	North.....	16 ft. 6 in. W. of E. line of Waverly and 16 ft. S. of N. line of 23rd avenue.....	Connection valve.
1	12 inch.	Waverly.....	North.....	15 ft. north of south line of Detroit and 17 ft. east of west line of Waverly.....	Connection valve.
1	12 inch.	Euclid.....	North.....	168 ft. 6 in. east of Rosedale avenue.....	Connection valve.
1	12 inch.	West Madison.....	North.....	35 ft. 6 in. west of east line of Gordon avenue.....	Connection valve.
8	12 inch.	Total.....			

DEPARTMENT OF PUBLIC WORKS.

LOW SERVICE DISTRICT--SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.--Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	10 inch.	Becker avenue.....		22 ft. north of south line Superior and 15 ft. 6 in. east of west line Becker...	Connection valve.
1	10 inch.	East Madison avenue.....		{ 17 ft. south of north line Wade Park avenue and 18 ft. east of west line of East Madison.....	Connection valve.
1	10 inch.	Euclid avenue.....	North.....	East line Lyman avenue.....	
1	10 inch.	Euclid avenue.....	North.....	East line Monroe avenue.....	
1	10 inch.	Erie street.....	East.....	South line of St. Clair street.....	
1	10 inch.	Gordon avenue.....	East.....	South line of Franklin avenue.....	
1	10 inch.	Gordon avenue.....	East.....	North line of Fir street.....	
1	10 inch.	Gordon avenue.....	East.....	South line of Clark avenue.....	
1	10 inch.	Lyman avenue.....	East.....	North line of Euclid avenue.....	
1	10 inch.	Lyman avenue ..	East.....	889 ft. north of Euclid avenue.....	
1	10 inch.	Lyman avenue.....	East.....	South line Crawford road.....	
1	10 inch.	Oliver street.....	East.....	South line Payne avenue.....	
1	10 inch.	St. Clair street.....	North.....	47 ft. west of east line Willson and 34 ft. south of north line St. Clair.....	Connection valve.
1	10 inch.	St. Clair street.....	North.....	13 ft. west of east line Oxford and 34 ft. south of north line St. Clair.....	Connection valve.
1	10 inch.	St. Clair street.....	North.....	17 ft. west of east line East Madison and 33½ ft. south of north line St. Clair	Connection valve.
1	10 inch.	St. Clair street.....	North.....	10 ft. west of east line Merkel and 31 ft. south of north line St. Clair.....	Connection valve.
1	10 inch.	St. Clair street.....	North.....	13 ft. west of east line Hoyt and 35 ft. south of north line St. Clair.....	Connection valve.
1	10 inch.	Seneca street.....	West.....	35 ft. north of south line Ohio street.....	Connection valve.
1	10 inch.	Seneca street.....	West.....	South line Ohio.....	Connection valve.

LOW SERVICE DISTRICT SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	10 inch.	Seneca street.....	West.....	North line Harrison street.....	
1	10 inch.	Seneca street.....	West.....	North line Stone's Levee.....	
1	10 inch.	Valentine street.....	South.....	13½ ft. north of south line Valentine and 34 ft. east of west line Scranton.....	Connection valve.
1	10 inch.	Willson avenue.....	West.....	North line St. Clair street.....	
23	10 inch.	Total.			
1	8 inch..	Ansel avenue.....	East.....	North line of Talbot street.....	
1	8 inch..	Clark avenue.....	South.....	West line of Ridge avenue.....	
1	8 inch..	Clark avenue.....	South.....	East line of Hope street.....	
1	8 1 ch..	Clark avenue.....	South.....	East line of Young street.....	
1	8 inch..	Crawford road.....	South.....	East line of Elm street.....	
1	8 inch..	Crawford road.....	South.....	East line of Lyman avenue.....	
1	8 inch..	Crawford road.....	South.....	West line of Lyman avenue.....	
1	8 inch..	Crawford road.....	South.....	West line of Crawford court.....	
1	8 inch..	Division street.....	South.....	17 ft. west of east line W. W. Grounds.....	
1	8 inch..	East Madison avenue.....	East.....	North line of St. Clair street.....	
1	8 inch..	East Madison avenue.....	East.....	South line of Wade Park avenue.....	
1	8 inch..	East Madison avenue.....	East.....	North line of Wade Park avenue.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	8 inch.	East Prospect street.	South.	East line of Hiddings avenue.	
1	8 inch.	East Prospect street.	South.	West line of Hiddings avenue.	
1	8 inch.	Fleet street.	North.	East line of Malmesbury street.	
1	8 inch.	Fleet street.	North.	East line of South Willson avenue.	
1	8 inch.	Frankfort street.	South.	East line of Seneca street.	
1	8 inch.	Genesee street.	East.	North line of Cory avenue.	
1	8 inch.	Gordon avenue.	East.	South line of Hermann street.	
1	8 inch.	Hough avenue.	South.	West line of Dunham avenue.	
1	8 inch.	Monroe avenue.	East.	South line of Euclid avenue.	
1	8 inch.	Ohio.	South.	East line of Stone's Levee.	
1	8 inch.	Oliver.	East.	North line of Payne avenue.	
1	8 inch.	Payne avenue.	North.	East line of Huntington street.	
1	8 inch.	Payne avenue.	North.	East line of Oliver street.	
1	8 inch.	Payne avenue.	North.	West line of Alabama street.	
1	8 inch.	Payne avenue.	North.	East line of Alabama street.	
1	8 inch.	Payne avenue.	North.	West line of Sterling avenue.	
1	8 inch.	Payne avenue.	North.	East line of Lawrence street.	
1	8 inch.	Public Square.	West.	51 ft. south of Frankfort street.	
C1	4 to 8 in.	Public Square.	West.	North line of Superior street.	

LOW SERVICE DISTRICT—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	8 inch.	Quincy.....	North.....	East line of Oakdale avenue.....	
1	8 inch.	Rockwell street.....	North.....	8 ft. south of Frankfort and 35 ft. east of west line of Public Square.....	
33	8 inch.	Total.			
C1	4 to 8 in.	Rockwell street.....	North.....	West line of Wood street.....	
C1	4 to 8 in.	Rockwell street.....	North.....	East line of Ontario street.....	
1	8 inch.	Rosedale street.....	East.....	North line of Crawford Road.....	
1	8 inch.	Rosedale street.....	East.....	North line of Moulton avenue.....	
C1	4 to 8 in.	St. Clair street.....	South.....	West line of Erie street.....	
1	8 inch.	St. Clair street.....	South.....	East line of Seneca street.....	
C1	4 to 8 in.	St. Clair street.....	South.....	West line of Seneca street.....	
1	8 inch.	Scranton avenue.....	East.....	21 ft. 6 in. south of north line Brainerd and 24 ft. west of east line Scranton.....	Connection valve.
C1	4 to 8 in.	Summit street.....	North.....	East line of Seneca street.....	
1	8 inch.	Summit street.....	South.....	East line of Bond street.....	
1	8 inch.	Superior street.....	South.....	West line of Almira street.....	
44	8 inch.	Total.			

LOW SERVICE DISTRICT--SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.--Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch..	A street.....	South.....	West line of B street.....	
1	6 inch..	Adrian street.....	West.....	South line of Superior street.....	
1	6 inch..	Adrian street.....	West.....	North line of Churchill street.....	
1	6 inch..	Almira street.....	West.....	North line of Superior street.....	
1	6 inch..	B street.....	East.....	North line of C street.....	
1	6 inch..	Bading street.....	South.....	East line Independence street.....	
1	6 inch..	Bailey street.....	North.....	East line Burton street.....	
1	6 inch..	Beckman street.....	South.....	East line Bolton avenue.....	
1	6 inch..	Beckman street.....	South.....	West line Oakdale street.....	
C 1	4 to 6 in.	Beech street.....	East.....	South line Scovill avenue.....	
C 1	4 to 6 in.	Beech street.....	East.....	North line Woodland avenue.....	
C 1	4 to 6 in.	Berg street.....	North.....	West line Cross street.....	
1	6 inch..	Berg street.....	North.....	East line Cross street.....	
1	6 inch..	Bragg street.....	North.....	West line Willson avenue.....	
1	6 inch..	Bridge street.....	South.....	East line Gordon avenue.....	
1	6 inch..	Brinsmade avenue.....	South.....	West line Ridge avenue.....	
1	6 inch..	Bu keye street.....	East.....	South line Kelley street.....	
1	6 inch..	Buckley street.....	South.....	East line Harbor street.....	
1	6 inch..	C street.....	South.....	West line B street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size	Street.	Side.	Location.	Remarks.
1	6 inch..	Calumet street.....	East.....	South line Payne avenue.....	
1	6 inch..	Cemetery street.....	East.....	North line Scovill avenue.....	
1	6 inch..	Cemetery street.....	East.....	North line Outhwaite avenue.....	
1	6 inch..	Collister street.....	East.....	South line St. Clair street.....	
1	6 inch..	Commonwealth avenue.....	West.....	North line Hough avenue.....	
1	6 inch..	Cory avenue.....	South.....	West line Genesee avenue.....	
1	6 inch..	Callison avenue.....	West.....	North line Crawford road.....	
1	6 inch..	D street.....	South.....	East line B street.....	
1	6 inch..	Douglas street.....	East.....	North line Perkins avenue.....	
1	6 inch..	E. End avenue.....	West.....	South line Euclid avenue.....	
1	6 inch..	Ehart street.....	South.....	East line Bolton avenue.....	
1	6 inch..	Ehart street.....	South.....	West line Oakdale street.....	
1	6 inch..	Elm street.....	West.....	South line Crawford road.....	
1	6 inch..	Elm street.....	West.....	North line Hazel street.....	
C	4 to 6 in.	Ensign street.....	South.....	West line Kinsman street.....	
1	6 inch..	Essex street.....	North.....	East line Milford street.....	
1	6 inch..	Essex street.....	North.....	West line Gauge street.....	
1	6 inch..	Essex street.....	East.....	South line Francis street.....	
1	6 inch..	Essex street.....	East.....	South line Maurice street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Flint street.....	East.....	South line of Washington street.....	
1	6 inch.	Flint street.....	East.....	North line of Detroit street.....	
1	6 inch.	Frontier street.....	South.....	East line of Alum street.....	
1	6 inch.	Frontier street.....	South.....	West line of Gilbert street.....	
1	6 inch.	Frankfort street.....	South.....	East line of Burton street.....	
C 1	4 to 6 in.	Frankfort street.....	South.....	West line of Seneca street.....	
1	6 inch.	Genesee street.....	West.....	South line of Euclid avenue.....	
1	6 inch.	Genesee street.....	West.....	North line of East Prospect street.....	
1	6 inch.	Gibbs street.....	West.....	South line of Dille street.....	
1	6 inch.	Gibbs street.....	West.....	North line of Martin street.....	
1	6 inch.	Giddings avenue.....	West.....	North line of East Prospect street.....	
1	6 inch.	Giddings avenue.....	West.....	South line of East Prospect street.....	
1	6 inch.	Glendale street.....	West.....	North line of Crawford road.....	
51	6 inch.	Total.			
C 1	4 to 6 in.	Hamilton street.....	North.....	East line of Ontario street.....	
C 1	4 to 6 in.	Hamilton street.....	North.....	West line of Wood street.....	
C 1	4 to 6 in.	Hamilton street.....	North.....	East line of Wood street.....	

LOW SERVICE DISTRICT--SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.--Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch..	Hathaway street.....	South.....	West line of Almira street.....	
1	6 inch..	Hathaway street.....	South.....	East line of Almira street.....	
1	6 inch..	Hazel street.....	South.....	East line of Oakland street.....	
C 1	4 to 6 in.	Huntington street.....	East.....	South line of Superior street.....	
1	6 inch..	Huntington street.....	East.....	North line of Payne avenue.....	
C 1	4 to 6 in.	Huntington street.....	East.....	South line of Payne avenue.....	
C 1	4 to 6 in.	Huntington street.....	East.....	North line of Euclid avenue.....	
1	6 inch..	Harkness street.....	West.....	North line of Hough avenue.....	
1	6 inch..	Harkness street.....	West.....	South line of Hough avenue.....	
1	6 inch..	Harrison street.....	North.....	West line of Seneca street.....	
1	6 inch..	Harrison street.....	North.....	East line of Seneca street.....	
1	6 inch..	High street.....	North.....	West line of Sheriff Street.....	
C 1	3 to 6 in.	Hill street.....	South.....	East line of Cross street	
1	6 inch..	Howlett street.....	South.....	East line of Gauge street.....	
1	6 inch..	Humboldt street.....	West.....	North line of Orange street.....	
1	6 inch..	Itaska street.....	South.....	East line of Cullison street.....	
1	6 inch..	Itaska street.....	South.....	West line of Roedale avenue.....	
1	6 inch..	Irving street.....	East.....	North line of Orange street.....	
1	6 inch..	Jackson street.....	East.....	South line of Orange street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch...	Knowlton street.....	South.....	East line of Cullion street.....	
1	6 inch...	Knowlton street.....	South.....	West line of Rosedale avenue.....	
1	6 inch...	Knox street.....	West.....	South line of Mayfield street.....	
1	6 inch...	Malden street.....	East.....	North line of Donald street.....	
1	6 inch...	Melrose street.....	South.....	West line of Genesee avenue.....	
1	6 inch...	Melvin street.....	West.....	North line of Crawford Road.....	
1	6 inch...	Mons street.....	South.....	West line of Cemetery street.....	
1	6 inch...	Mons street.....	South.....	East line of Dike street.....	
1	6 inch...	Moulton street.....	South.....	East line of Rosedale avenue.....	
1	6 inch...	Minnesota street.....	East.....	North line of Payne avenue.....	
1	6 inch...	Oakland street.....	West.....	South line of Crawford Road.....	
1	6 inch...	Oakland street.....	West.....	North line of Crawford Road.....	
1	6 inch...	Oakland street.....	West.....	North line of Moulton street.....	
86	6 inch.....	Total.			
C 1	8 to 6 in.	Oak place.....	East.....	North line of Prospect street.....	
1	6 inch...	Ohio street.....	South.....	East line of Seneca street.....	
1	6 inch...	Olive court.....	South.....	East line of Olive street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch..	Outhwaite avenue.....	South.....	West line of Cemetery street.....	
1	6 inch..	Princeton street.....	West.....	1,135 ft. south of Hough avenue.....	
1	6 inch..	Prince street.....	South.....	East line of Ridge avenue.....	
1	6 inch..	Pallister street.....	West.....	North line of Fleet street.....	
1	6 inch..	Palm street.....	East.....	North line of Frass street.....	
1	6 inch..	Park place.....	West.....	North line of Rockwell street.....	
1	6 inch..	Parkwood street.....	West.....	South line of Superior street.....	
1	6 inch..	Prairie street.....	South.....	West line of Scranton avenue.....	
1	6 inch..	Peach street.....	South.....	West line of Burton street.....	
1	6 inch..	Public Square.....	East.....	South line of Rockwell street.....	
1	6 inch..	Petrie street.....	West.....	North line of Fleet street.....	
1	6 inch..	Proposed street.....	East.....	North line of Euclid avenue.....	
1	6 inch..	Ruth street.....	South.....	West line of Cemetery Street.....	
1	6 inch..	Ruth street.....	South.....	East line of Dike street.....	
1	6 inch..	Scovill avenue.....	North.....	West line of Cemetery street.....	
1	6 inch..	Seneca street.....	East.....	North line of Ohio street.....	
1	6 inch..	Seabrook street.....	West.....	South line of Mound street.....	
1	6 inch..	Seabrook street.....	West.....	North line of Fleet street.....	
1	6 inch..	Simon street.....	South.....	East line of Woolsey street.....	

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	South street	North	North line of Stark weather avenue.....	
C 1	4 to 6 in.	State street	West.....	South line of Detroit street.....	
C 1	4 to 6 in.	State street	West	North line of Detroit street	
1	6 inch..	Stella place	East	North line of Woodland avenue.....	
1	6 inch..	Stone's levee.....	South	East line of Seneca street	
1	6 inch..	Talbot street.....	South.....	West line of Ansel avenue	
1	6 inch..	Taylor street.....	West	North line of Clinton street	
1	6 inch..	Taylor street.....	West	South line of Clinton street	
1	6 inch..	Train street.....	South.....	West line of Burton street	
1	6 inch..	University street.....	West	South line of Stark weather avenue.....	
1	6 inch..	Verona street.....	East	North line of Bragg street.....	
1	6 inch..	Walworth street	North	West line of Seneca street.....	
1	6 inch..	Wentworth avenue	South.....	East line of Ridge avenue.....	
1	6 inch..	W. S. Pumping Sta.....		11 ft. w. of e. line of W. W. grounds and 13 ft. s. of n. line of Division street.	
122	6 inch..				
15	6 inch..	For Hydrants.			
137	6 inch..	Total.			

WATER WORKS.

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	4 inch..	Alley off Orange, 10 Jack'n	West	North line Orange street	
1	4 inch..	Commodore street	West	North line Payne avenue	
1	4 inch..	Commodore street	East	North line Payne avenue	
1	4 inch..	Fount'n alley	South	East line of Seneca street	
1	4 inch..	Fulton court	West	North line of Lorain street	
1	4 inch..	Miami street	West	North line of Bolivar street	
1	4 inch..	Noble alley	South	East line of Seneca street	
1	4 inch..	Otell alley	East	South line of Orange street	
1	4 inch..	Perkins place	North	East line of Willson avenue	
1	4 inch..	Perkins place	North	53 feet west of the east line of Willson avenue	
1	4 inch..	Russell place	South	East line of Russell avenue	
1	4 inch..	Scott alley	South	East line of Scott street	
1	4 inch..	Scranton place	South	East line of Scranton avenue	
1	4 inch..	W. S. Pumping sta.		12 ft. 10 in. s. of s. Engine House and 7 in. w. of east line Engine House	
1	4 inch..	W. S. Pumping sta.		91 ft. east of south Engine House and 15 ft. 6 in. south of Division street	
1	4 inch..	Wheller place	West	North line of Central avenue	
16					
262	4 inch.	For Hydrants.			
278	4 inch..	Total.			

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	3 inch..	Summit alley	North.....	West line of Erie street.....	
5	3 inch..	For Hydrants.			
6	3 inch..	Total.			

LOW SERVICE DISTRICT—STOP GATES TAKEN OUT AND CHANGED IN 1893.

No.	Size Taken Out.	Size Set.	Street.	Side.	Location.	Remarks.
1	8 inch..	Broadway	East.....	North line Aetna street.....	{ Changed to high service.
1	6 inch..	.....	Aetna street	North.....	East line of Broadway.....
1	4 inch..	6 inch..	Beech street.....	East.....	South line of Scovill avenue.....	{ Changed to high service.
1	4 inch..	6 inch..	Beech street.....	East.....	North line of Woodland avenue.....	
1	4 inch..	6 inch..	Berg street.....	North.....	West line of Crawford road.....	
1	4 inch..	.....	Canal street.....	West.....	619 ft. north of Factory street.....
1	4 inch..	6 inch..	Ensign street.....	North.....	West line of Kinsman street.....	
1	4 inch..	6 inch..	Frankfort street.....	South.....	West line of Seneca street.....	
1	4 inch..	.....	Frankfort street.....	North.....	West line of Public Square.....
1	4 inch..	6 inch..	Huntington street.....	East.....	South line of Superior street.....	
1	4 inch..	6 inch..	Huntington street.....	East.....	South line of Payne avenue.....	
1	4 inch..	6 inch..	Huntington street.....	East.....	North line of Euclid avenue.....	
1	4 inch..	6 inch..	Hamilton street.....	North.....	East line of Ontario street.....	
1	4 inch..	6 inch..	Hamilton street.....	North.....	West line of Wood street.....	
1	4 inch..	6 inch..	Hamilton street.....	North.....	East line of Wood street.....	
1	4 inch..	8 inch..	Public Square.....	West.....	North line of Superior street.....	
1	4 inch..	8 inch..	Rockwell street.....	North.....	East line of Ontario street.....	

LOW SERVICE DISTRICT—STOP GATES TAKEN OUT AND CHANGED IN 1893.—Continued.

No.	Size Taken Out.	Street.	Side.	Location.	Remarks.
1	4 inch...	Rockwell street	North.....	West line of Wood street.....	
1	4 inch...	St. Clair street.....	South.....	West line of Seneca street.....	
1	4 inch...	St. Clair street.....	South.....	West line of Erie street.....	
1	4 inch... 6 inch..	State street.....	West.....	North line of Detroit street.....	
1	4 inch... 6 inch..	State street.....	West.....	South line of Detroit street.....	
1	4 inch... 8 inch..	Summit street.....	North.....	East line of Seneca street.....	
5	4 inch...	Stop gates taken out with hydrants.			
26	4 inch...	Total taken out.			
1	3 inch...	Hill street.....	South.....	East line of Cross street.....	
22	3 inch...	Stop gates taken out with hydrants.			
23	3 inch...	Total taken out.			

LOW SERVICE DISTRICT—RECAPITULATION OF STOP GATES FOR 1893.

Water Way in Inches.	38 inch.	30 inch.	24 inch.	20 inch.	16 inch.	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.	3 inch.	Total.
Reported previous to 1893.....	42	62	12	20	43	71	169	553	2,062	3,732	106	6,962
Set in 1893.....	6	.....	.....	.....	17	8	23	44	137	278	6	519
Total.....	48	62	12	20	60	79	192	597	2,199	4,010	112	7,381
Taken out in 1893.....	.....	.....	.....	.....	.....	.....	.....	1	1	26	23	51
Total in use December 31, 1893	48	62	12	20	60	79	192	598	2,198	3,984	89	7,330

HIGH SERVICE DISTRICT—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.

No.	Size.	Street.	Side.	Location.	Remarks.
1	12 inch.	Murray Hill.....	West.....	South line of Mayfield Road.....	
1	12 inch.	Murray Hill.....	West.....	North line of Fairview avenue.....	
1	12 inch.	Murray Hill.....	West.....	North line of Cornell street.....	
1	12 inch.	Murray Hill.....	West.....	North line of Adelbert street.....	
1	12 inch.	Murray Hill.....	West.....	North line of Cedar avenue.....	
5	12 inch.	Total.			
1	10 inch.	Broadway.....	North.....	South line Aetna street.....	
1	10 inch.	Cedar avenue.....	North.....	West line of Murray Hill.....	
1	10 inch.	Mayfield street.....	South.....	West line of Murray Hill.....	
1	10 inch.	Mayfield street.....	South.....	East line of Murray Hill.....	
1	10 inch.	Woodland Hills.....	West.....	North line of Bessemer street.....	
1	10 inch.	Woodland Hills.....	West.....	South line of Richmond street.....	
1	10 inch.	Woodland Hills.....	West.....	26 ft. north of Heins street and 28 ft. east of west line of Woodland Hills.....	
1	10 inch.	Way street.....	South.....	West line of Woodland Hills.....	
8	10 inch.	Total.			

WATER WORKS.

HIGH SERVICE DISTRICT -- SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893 -- Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	8 inch...	Ambleside street...	West.....	South line of Cedar avenue.....	
1	8 inch...	Ambleside street.....	West.....	North line of Maple side.....	
1	8 inch...	Ambleside street.....	East.....	North line of Fairmount street.....	{ Changed from { Low Service.
1	8 inch...	Broadway.....	North.....	North line of Aetna street.....	
1	8 inch...	Fleet street.....	South.....	West line of Marcelline avenue.....	
1	8 inch...	Marcelline street.....	West.....	South line of Harvard street.....	
1	8 inch...	Monroe street.....	East.....	North line of Mayfield Road.....	
1	8 inch...	Monroe street.....	East.....	1,000 ft. north of Mayfield Road.....	
1	8 inch...	Sawyer street.....	East.....	South line of Union street.....	
9	8 inch...	Total.			
1	6 inch...	Adelbert.....	South.....	West line of Murray Hill.....	
1	6 inch...	Aetna street.....	North.....	North line of Broadway.....	{ Changed from { Low Service.
1	6 inch...	Blue Rock place.....	South.....	West line of Murray Hill.....	
1	6 inch...	Coltman street.....	West.....	North line of Mayfield Road.....	
1	6 inch...	Coltman street.....	West.....	East line of East End avenue.....	
1	6 inch...	Coltman street.....	West.....	12 ft. west of east line of East End avenue.....	{ Connecting High { and Low Systems.
1	6 inch...	Cornell.....	North.....	West line of Murray Hill.....	

DEPARTMENT OF PUBLIC WORKS.

HIGH SERVICE DISTRICT—SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Craze	South	East line Sawyer avenue	
1	6 inch.	E. End avenue	East	North line Mayfield road	
1	6 inch.	E. End avenue	East	South line Colman street	
1	6 inch.	Easton street	South	East line Woodland Hills avenue	
1	6 inch.	Echo street	West	North line Actna street	
1	6 inch.	Elmwood street	West	South line Canton street	
1	6 inch.	Elmwood street	West	North line Worley street	
1	6 inch.	Fairview street	South	East line Murray Hill avenue	
1	6 inch.	Fairview street	West	South line Mayfield road	
1	6 inch.	Homestead street	South	West line Broadway	
1	6 inch.	Indiana street	South	East line Marcelline avenue	
1	6 inch.	Kennedy street	North	East line Oakdale street	
1	6 inch.	Kennedy street	North	West line Orwig street	
1	6 inch.	Kennedy street	North	East line Orwig street	
1	6 inch.	Ledyard street	West	North line Fleet street	
1	6 inch.	Lyford street	North	West line Marcelline avenue	
1	6 inch.	Reade street	West	North line Chassen street	
1	6 inch.	Richmond street	South	West line Sawyer avenue	
1	6 inch.	Richmond street	South	East line Sawyer avenue	

WATER WORKS.

HIGH SERVICE DISTRICT—SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1893.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch...	Richmond street.....	South.....	West line Woodland Hills avenue	
1	6 inch...	Richmond street.....	South.....	East line Woodland Hills avenue.....	
1	6 inch...	Tioga street.....	South.....	East line Warner road.	
1	6 inch...	Tioga street.....	South.....	West line Turney street.....	
1	6 inch...	Wagman street.....	West.....	North line Aetna street.	
1	6 inch...	Way street.....	South.....	East line Woodland Hills avenue.....	
2	6 inch...	For Hydrants.			
34	6 inch...	Total.			
1	4 inch...	S. Prospect street.....	West.....	North line Fullerton street.....	{ Conn'g High and Low Serv. Dist.
1	4 inch...	Broadway.....	North.....	521 ft. west of Aetna street	
81	4 inch...	For Hydrants.			
83	4 inch...	Total.			

STOP GATES TAKEN OUT AND CHANGED IN 1893.

No.	Size.	Size Net.	Street.	Side.	Location.
1	4 inch.		Broadway	West	430 ft. north of Baxter street.

RECAPITULATION OF STOP GATES FOR 1893.

Water Way in Inches.	36 inch.	20 inch.	24 inch.	20 inch.	16 inch.	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.	3 inch.	Total.
Reported previous to 1893.			8	1	8	10	30	45	33	185	406	726
Set in 1893.							5	8	9	34	83	139
Total in use December 31st, 1893.			8	1	8	10	35	53	42	219	489	865
											1	1
			8	1	8	10	35	53	42	219	488	864

STOP GATES IN USE IN BOTH DISTRICTS DEC. 31ST, 1893.

In low service district.....	7,380
In high ".....	864
	<hr/>
In both districts.....	8,194

VOUCHER REGISTER OF ACCOUNTS PAYABLE,
FOR THE YEAR

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt Dep't.	General Con-tingent Expense.	Old River Pumping Stat on Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
January.	Armstrong, W. W. Treas	Pay-Rolls.....	\$ 4,383 60	\$ 756 76	\$ 231 05	\$1,294 27		\$1,547 97		\$ 149 50
	Armstrong, W. W. Treas	Pay-Rolls.....	4,366 54	476 64	224 46	1,290 32	117 91	1,743 17		176 25
	Adams, A.....	Blacksmithing....	6 00		6 00					
	Averill, John N.....	Sewer Pipe.....	3 00	3 00						
	Bell, Cartright Co.....	Lumber.....	119 00							
	Benhoff, H.....	Plumbing.....	3 55		3 55					
	Bingham, Wm. Co.....	Hardware.....	68 43		1 45	12 00		48 58		4 40
	Black, P. F. & Co.....	Blacksmithing....	3 85		3 85					
	Borden & Selleck Co.....	{ 1st Est. on Scale Track }	450 00							
	Born Steel Range Co.....	Tin Pump.....	3 60		3 60					
	Brooks & Co.....	Stationery.....	13 85			13 85				
	Brooks Building Co.....	Wedges.....	7 50	7 50						
	Brooklyn St. R. R. Co.....	Car Tickets.....	30 00			30 00				
	Brush Electric Co.....	Electric Supplies.	20 40					20 40		
	Caine, W. H.....	Stone Flagging...	15 80							
	Clement Bros.....	Cement.....	6 00							
	Cleveland City Cable Co.....	Car Tickets.....	50 00			50 00				
	Cleveland Paper Co.....	India Ink, etc....	9 65			9 65				
	Clev. Print. & Pub. Co.....	Blank Bonds, etc.	96 30			96 30				
	Clev. Steam Boiler Wks.	Repairing Boilers	131 53						131 53	
	Cleveland Tel. Co.....	Tel. services.....	78 00		12 50	42 50		18 00		5 00
	Connelly, Daniel.....	2d Est. on Boilers	1,445 00							
	Cooper, Geo. Co.....	Iron Bands.....	1 10		1 10					
	Crane Co., Chicago, Ill.	Fire Hydrants....	313 40	313 40						
	Fassnacht Bros.....	Brooms.....	6 00					6 00		
	Fieden & Faber.....	Salt.....	3 15		2 10			1 05		
	Fisher, E. W.....	Plumb. supplies..	7 98							
	Ford, Beers & Co.....	Cement.....	13 75							
	Gabriel, W. H.....	Blacksmithing....	13 45	5 65	5 45					
	Gawne, W. J.....	1st Est. on Track	607 50							

SUBDIVISION OF WATER WORKS,
ENDING DEC 31, 1893.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
\$ 37 50	\$ 26 00	\$ 128 40	\$ 111 25	\$	\$	\$	\$ 119 90	\$	\$	\$	\$	\$	\$
54 30	26 00	126 54	124 95										
								20 00					
	2 00									450 00			
		6 00						15 80					
								1,445 00					
		7 98											
		75	1 60					13 75					
										607 50			

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt. Depart.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
January.	Graves, John J	Plumbing	\$ 14 03	\$ 14 03						
	Harbaugh, A. G. Co.....	Cylinder Oil	34 84					34 84		
	Herman-McLean Co.....	Salt	5 70		1 05			4 65		
	Kingsley, M. W., Supt.	Cash advanced.....	181 54	24 04		11 73				
	Knickerbocker Ice Co..	Ice	27			27				
	Lake Shore Foundry....	Pipe	1,025 09	1,025 09						
	Lu'tk'm'y'r, H.W.&Son	Band Iron, etc....	6 25					6 25		
	Manning, Thos. Jr.....	Forging, etc.....	43 96	11 70		32 26				
	Moore, Wm	Screen Partition..	45 00			45 00				
	N. Y., L. E. & W. R. R.	Weighing Coal.....	48 00					48 00		
	Nixon, John W.....	Plumbing.....	19 14	19 14						
	Ohio Rubber Co.....	Hose, etc.....	36 01					36 01		
	Osborne, A. T. Co.....	Oil, Shellac, etc...	21 48			13 00				8 48
	Osborne, Seager Co	Coal	4,450 51					4,276 63		173 88
	Edelstein, M.....	{ Pl'n D'r, July } { 1, '92 Jan. 2 '93 }	1 50			1 50				
	Quayle, P. P. & Co.....	Coal	186 38					186 38		
	Rensselaer M'fg Co.....	Valves.....	419 20	419 20						
	Rhodes-Beidler Co.....	Coal	13 00	6 00		7 00				
	Rhodes-Beidler Co.....	Coal	73 24					73 24		
	Ross, W. M.....	Repairing Clock..	3 00					3 00		
	Sealand, F. E.....	Teaming.....	43 50	35 50						
	Standard Oil Co.....	Oil.....	7 50					7 50		
	Stowe-Fuller Co.....	Brick & Fire Clay	38 00					38 00		
	Street Department	Street Repairs....	57 87	57 87						
	Sullivan, J. J., Trustee	Cash Refunded ...	1,700 00							
	Thomson Meter Co.....	Water Meters.....	60 00							
	Van Tassel, A. T. & Co.	Hardware.....	7 92					7 92		
	Vulcan Brass Co., The.	Brass Valves.....	72 00							
	Welsh, Edward.....	Diving at R's'rv'r	30 00							
	Wilson, John	Brick	9 00	9 00						
Worthingt'n, H.R., N.Y	Float Valves.....	360 00	360 00							
Feb.	Armstrong, W. W. Treas	Pay-Rolls.....	4,043 90	78 33	195 99	1,656 77		1,666 50		123 25

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dept.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
February.	Standard Oil Co. } Lube. Dept.....	Oil.....	\$ 13 65	\$.	\$.	\$.	\$.	\$ 13 65	\$.	\$.
	Stowe-Fuller Co.....	Fire Clay.....	1 50					1 50		
	Union Oil Co.....	Cylinder Oil.....	46 95					46 95		
	Van Tassel, A. T. & Co.	Hardware.....	8 15					8 15		
	Wood, R. D. & Co.....	Nozzle Gates, etc.	19 20		19 20					
	Connelly, Daniel.....	{ 1st Est. \$1275 } { & 3d Est. \$255 }	1,530 00							
	Kingsley, M. W., Supt.	Cash Advanced..	11 42							
	Armstrong, W. W. Treas	Interest.....	31,075 00							
	Armstrong, W. W. Treas	Pay-Rolls.....	4,109 85		205 10	1,690 23	191 04	1,578 46		127 25
	Armstrong, W. W. Treas	Pay-Rolls.....	4,480 18	222 00	238 60	1,680 29		1,597 18		129 25
	Behm, Herman.....	Manure.....	26 25							26 25
	Bell, Cartwright & Co..	Lumber.....	4 28				4 28			
	Bingham, W. Co. The..	Hardware.....	61 24					58 60		2 24
	Born Steel Range Co ..	Globes, etc.....	2 25			2 25				
Brooks Building Co ..	Lumber.....	1 80								
Brooks & Co.....	Stationery.....	2 55			2 55					
Brush Electric Co.....	{ Repairing } { Armature... }	11 37							11 37	
Burton, H. C.....	Forging.....	22 65							22 65	
Chafer & Becker.....	Pipe Repairs.....	12 27							12 27	
March.	Cleveland City Cable } R'y Co.....	Car Tickets.....	50 00				50 00			
	Cleveland Desk Co.....	Desks.....	245 00				245 00			
	Cleveland Paper Co.....	Rubber Bands, etc	2 35			2 35				
	Cleveland Desk Co.....	Bill Case, etc ..	72 00				72 00			
	Cleveland Gas Light } & Coke Co.....	Gas.....	40			40				
	Cleveland Prt. & Pub. Co	{ Assessment } { Blanks, etc. }	145 50			139 25				
	Cleveland Steam } Boiler Works Co.....	Repairing Boilers	242 63						242 63	
	Cleveland Tel. Co.....	Tele. Services.....	30 00		12 60			12 60		
	Connolly, Daniel.....	4th Est. on Boilers	272 00							
	Connolly, Daniel.....	2d Est. on Boilers	765 00							
Daykin Bros.....	Stop Cook & Boxes	683 34								
East Cleveland R. R. Co.	Car Tickets.....	50 00			50 00					
Farrand, H. W.....	Teaming.....	14 43				14 43				

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
	66 63	26 00	110 00	115 14		11 42	31,075 00	1,530 00					
	80 39	26 00	152 25	121 43				63 00			178 79		
			40						1 80				
	5 00							272 00					
				62 34				766 00					

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt Dept.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
March.	Fisher, W. E. Co.....	Pipe, etc.....	\$ 80 77	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 60 79	\$.....
	Ford, Beers & Co.....	Cement.....	16 00	.....	.....	.....	.....	.....	12 00	.....
	Gabriel, H. W.....	Blacksmithing...	2 75	.....	2 75	.....	.....	.....	.....	.....
	Hull, W. E. Co.....	Rubber packing..	6 23	.....	.....	.....	.....	.....	.....	.....
	Ingraham, T.....	Cotton waste.....	57 04	.....	.....	.....	10 80	46 24	.....	.....
	Kelley Isl'd Lime & T. Co	Lime.....	2 40	.....	.....	.....	.....	.....	.....	.....
	Kennedy, DeForest, } Parsons & Co..... }	Rep'g hydrant....	1 90	.....	1 90	.....	.....	.....	.....	.....
	Kingsley, M. W. Sup't.	Cash advanced...	31 92	.....	.....	.....	6 44	.....	.....	.....
	Koningslow, E.....	Rep'g No. mach.	7 50	.....	.....	7 50	.....	.....	.....	.....
	Lake Shore Foundry	Pipe.....	569 61	569 61	.....	.....	.....	.....	.....	.....
	Lord, Bowler & Co.	Rep. brass valves.	62 50	.....	62 50	.....	.....	.....	.....	.....
	Luetkemeyer, W. H. } & Son..... }	Hardware.....	3 60	.....	.....	.....	.....	.....	.....	.....
	McAuley, Mary.....	Lauder'g towels	8 00	.....	.....	8 00	.....	.....	.....	.....
	Macbeth & Co.....	Iron Beams.....	14 77	.....	.....	.....	14 77	.....	.....	.....
	Manning, Thos. Jr. & Co.	Blacksmithing...	39 37	.....	4 37	.....	.....	.....	.....	.....
	Metcalf W. V.....	Div'g at Reserv'r	30 00	.....	.....	.....	.....	.....	.....	.....
	Miller, Chas. & Son...	Tan Bark.....	39 00	.....	.....	.....	.....	.....	.....	.....
	Nat'l Bank of Com- } merce for Burt & Son }	Grass Seed.....	7 00	.....	.....	.....	.....	.....	.....	7 00
	N. Y., L. E. & W. R. R.	Weighing coal....	73 00	.....	.....	.....	.....	73 00	.....	.....
	Osborn, T. A. Co.....	Tracing cloth....	8 40	.....	.....	.....	.....	.....	.....	.....
	Osborn, Seager & Co.	Coal.....	3,742 80	.....	.....	.....	.....	3,596 23	.....	146 57
	People's Gas Light Co.	Gas.....	5 60	.....	.....	.....	.....	5 60	.....	.....
	Plain Dealer Pub. Co.	Advertising.....	64 97	.....	40 30	.....	.....	.....	.....	.....
	Rensselaer Mfg. Co.	Valve screws....	28 62	.....	28 62	.....	.....	.....	.....	.....
	Rhode & Beidler Coal Co.	Coal.....	7 00	.....	.....	7 00	.....	.....	.....	.....
	Skeel Bros.....	Lumber, etc.....	7 10	.....	.....	.....	.....	.....	.....	.....
	Southworth, W. P. Co.	Pails, brooms, etc.	4 55	.....	3 00	1 55	.....	.....	.....	.....
	Standard Oil Co.	Oil.....	3 66	.....	.....	.....	.....	3 66	.....	.....
	Stowe, Fuller & Co.....	Brick & fire clay..	39 50	.....	.....	.....	.....	.....	39 50	.....
	Wood & Co.....	Salt and coal.....	4 60	.....	.....	.....	.....	.....	.....	.....
Armstrong, W. W. Treas	Interest.....	2,000 00	.....	.....	.....	.....	.....	.....	.....
Stone, Ithiel.....	Linoleum.....	100 00	.....	.....	.....	100 00	.....	.....	.....

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler Hoses and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine	Water Works Bonds.
		\$ 19 98	\$ 4 00										
			6 23										
						25 48							
			3 60										
	30 00							35 00					
			39 00										
									8 40				
	7 10							12 00	12 67				
	4 50						9,000 00						

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Mh.	Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt. Dept'l.	General Con- tingent Expense.	Old River Pumping Station Expenses.	Old River Pumping Station Repairs.	Fairmount Pumping Expenses.
				\$	\$	\$	\$	\$	\$	\$	
		Plain Dealer Pub. Co.	Not. of Bond Sale	\$ 7 00	\$	\$	\$	\$ 7 00	\$	\$	\$
		Armstrong, W. W. Treas	Pay roll.	5,201 30	720 32	390 04	1,385 57		1,847 90		100 50
		Armstrong, W. W. Treas	Pay roll.	5,271 70	1,190 68	243 61	1,513 15		1,507 88		100 00
		Adams, A.	Blacksmithing.	5 00		5 00					
		Bingham, W. Co. The.	Hardware.	6 35		1 30				4 35	
		Born Steel Range Co.	Galv. pipe, etc.	1 75							
		Brooklyn St. R. R. Co.	Car tickets.	30 00			30 00				
		Brooks Building Co.	Lumber.	1 80							
		Burt, S. H. & Co.	Lawn seed.	10 00							
		Chafer & Becker.	Pipe, etc.	12 35							
		Chase Machine Co.	Repairing meters	65 02							
		Cleveland C. C. Ry. Co	Car tickets.	25 00			25 00				
		Cleveland Desk Co.	Book rack, etc.	57 50			57 50				
		Cleveland Gas Light and Coke Co.	Gas to March 24.	64			64				
		Cleveland Paper Co.	Stationery.	80			80				
		Cleveland Printing & Pub. Co.	Advertising.	5 00			5 00				
		Cleveland Ship Bldg. Co.	Forging.	9 05							
		Cleveland Steam Boiler Works	Repairing boilers	246 52						246 52	
		Cleveland Tel. Co.	Tel. services.	48 00			30 00		18 00		
		Cleveland Window Glass Co.	Glass.	13 85			13 85				
		Connelly, Daniel.	Estimate.	545 70							
		Crane Co. (Chicago, Ill.)	Valves, etc.	645 52	7 92						
		Daykin Bros.	{ Stop cock boxes, etc. }	248 00							
		Dept. of Public Works	Repairing street.	29 01		29 01					
		East Cleveland St. R. R. Co.	Car tickets.	60 00			60 00				
		Farnan Brass Works.	Valves, etc.	503 34						22 11	
		Fasnacht Bros.	Brooms.	6 00					6 00		
		Fisher, E. W. Co.	Galv. pipe, etc.	16 57						2 94	
		Ford, Beers & Co.	Cement, tile, etc.	226 47							
		Gabriel, W. H.	Blacksmithing.	12 95		5 50					
		Gibson & Price Co.	Pig lead.	258 01	258 01						
		Globe Iron Works.	Forging, etc.	186 61							

WATER WORKS.

SUBDIVISION OF WATER WORKS—Continued.

Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure	Expenditure
Pump Station Repairs.	Fairmount Reservoir Expenses.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.	
\$ 58 50	\$ 36 50	\$ 85 95	\$ 116 99	\$	\$	\$	\$	\$ 241 58			\$ 217 50			
62 00	74 60	125 66	119 66					54 00			271 46			
		70							1 75					
10 00									1 80					
		65 02									12 35			
												9 05		
								545 70						
				248 00							637 60			
				419 78								61 45		
		13 63												
		2 40	5 05								226 47			
											186 61			

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
April	Graves, John J.....	Plumbing.....	\$ 25 87	\$ 16 57	\$ 10 30	\$.....	\$.....	\$.....	\$.....	\$.....
	Harbaugh, A. G. & Co.	Lard oil.....	41 60					41 60		
	Hempy, H. M. & Son...	Plugs.....	18 00	18 00						
	Hersey Mfg. Co.....	Meter parts, etc..	58 05							
	Imperial Oil & Grease } Co.....	Cylinder oil.....	49 44					49 44		
	Kingsley, M. W., Sup't	Cash advanced....	75 69	8 26		8 70				
	Lake Erie Iron Co.....	Machine bolts....	26 98							
	Lake Shore Foundry...	Pipe.....	17,257 78	17,257 78						
	Leutkemeyer, H. W. } & Son.....	Nails, etc.....	4 25		4 25					
	N. Y., L. E. & W. R.R.	Weighing coal....	51 50					51 50		
	Osborne, A. T. & Co....	One T square, etc.	2 25			2 25				
	Osborne, Seager & Co..	Coal.....	3,554 72					3,434 31		120 41
	Peterson & Kain.....	Repairing chairs..	2 00			2 00				
	Plain Dealer Pub. Co.	Advertising.....	8 45			8 45				
	Rhodes, Beidler Co....	Coal.....	7 00			7 00				
	Riblets Transfer & } Livery Co.....	Use of horses } and wagons... }	256 50		43 75					
	Rothenbecker, P.....	Sand.....	6 00							
	Russell, Henry.....	Elevator, etc.....	165 77			165 77				
	Smith, Albert A.....	Testing boiler } plate..... }	24 00							
	Southworth, W. P. Co..	Washing soda, &c.	1 02							1 02
	Standard Oil Co.....	Oil.....	3 88					3 88		
	Stanton, H. L.....	Labor.....	2 00		2 00					
	Sturtevant Lumber Co.	Fence posts.....	50	50						
	Union Oil Co.....	Cylinder oil.....	77 55					77 55		
	Van Dorn Iron Works..	Bolts, etc.....	1 25	1 25						
	Van Tassel, A.T. & Co.	Hardware.....	11 86					11 86		
	Van Tine, W. H. & Co.	Cash refunded....	646 00							
	Vessel Owners Tow- } ing Co.....	Use of tug.....	3 00							
Wilson, John.....	Brick.....	45 00								
Wood, R. D. Co.....	Hydrants.....	223 04	223 04							
World Publishing Co..	Advertising.....	7 32				7 32				
Armstrong, W. W. Treas	Interest.....	7,000 00								

WATER WORKS.

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SUBDIVISION OF WATER WORKS—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
			58 05										
			50			51 57		6 66			26 98		
				72 75	138 00				2 00				
								24 00			6 00		
					646 00								
			24 00						3 00		21 00		
							7,000 00						

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dept.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.	
Apr.	Morgan, W. J.....	Lith'g bonds.....	\$ 42 50	\$.....	\$.....	\$ 42 50	\$.....	\$.....	\$.....	\$.....	
	Armstrong W.W.Treas	Pay-rolls.....	6,225 36	2,202 41	236 50	1,253 57	.....	1,552 12	.....	124 63	
	Armstrong, W. W. Treas	Pay-rolls.....	8,409 60	4,240 81	398 43	1,366 07	.....	1,631 41	.....	191 82	
	Armstrong, W. W. Treas	Wat. Wks. bonds	200,000 00	.....	.....	.....	.....	.....	.....	.....	.....
	Barkwell, G. C.....	Brick.....	40 33	.....	.....	.....	.....	.....	.....	.....	.....
	Bingham, Wm.....	Hardware.....	32 92	11 92	.....	.....	.....	11 97	.....	.....	2 70
	Bohm & Stuhr.....	Cedar posts.....	10 00	.....	.....	.....	.....	.....	.....	.....	.....
	Brooks Building Co.....	Filing saws.....	1 00	.....	.....	.....	.....	.....	.....	.....	.....
	Chafer & Becker.....	Machine work....	1 20	.....	.....	.....	.....	.....	.....	1 20	.....
	E. Cleve'd It. R. Co...	Car tickets.....	50 00	.....	.....	.....	50 00	.....	.....	.....	.....
	Cleve. Gas Lt. & Coke Co.	Gas.....	2 32	.....	.....	.....	2 32	.....	.....	.....	.....
	Cleveland Paper Co.....	Stationery.....	5 55	.....	.....	.....	5 55	.....	.....	.....	.....
	Cleveland Press.....	Advertising.....	4 00	.....	.....	.....	4 00	.....	.....	.....	.....
	Cleve. Print. & Pub. Co.	Water Notices, etc	37 25	.....	.....	.....	37 25	.....	.....	.....	.....
	Cleve. Saw M. & Lum. Co.	Lumber.....	14 72	.....	.....	.....	.....	.....	.....	.....	.....
	Cleve. Steam Boiler Wks	Rep'g Boilers, etc.	458 04	22 50	.....	.....	.....	.....	.....	435 54	.....
	Cleve. Window Glass Co.	Glass.....	1 85	.....	.....	.....	1 10	.....	.....	.....	.....
	Clifford Bros & Hoffman	Charcoal.....	2 50	2 50	.....	.....	.....	.....	.....	.....	.....
	Connelly, Daniel.....	Final estimate...	648 00	.....	.....	.....	.....	.....	.....	.....	.....
	Connelly, Daniel.....	Final estimate...	456 30	.....	.....	.....	.....	.....	.....	.....	.....
	Cowin, C. Wm.....	Papering house...	112 59	.....	.....	.....	.....	.....	.....	.....	.....
	Crane Co., (Chicago, Ill.)	Exp. joint.....	45 90	.....	.....	.....	.....	.....	.....	.....	.....
	Daykin Bros.....	Stop Cks. & Boxes.	1,111 04	.....	.....	.....	.....	.....	.....	.....	.....
	Dewstoe & Schneider...	Plumbing.....	20 74	.....	.....	.....	20 74	.....	.....	.....	.....
	Dodge, H. Lyman.....	1 stamp.....	1 50	.....	.....	.....	1 50	.....	.....	.....	.....
	Dunn Mfg. Co.....	Sewer braces.....	60 00	60 00	.....	.....	.....	.....	.....	.....	.....
	Elec. Supply & Mfg Co.	Electric supplies.	30 93	.....	.....	.....	30 93	.....	.....	.....	.....
Fisher, W. E. Co.....	Plumb'g supplies	59 30	.....	.....	.....	.....	.....	.....	5 85	.....
Ford, Beers & Co.....	Cement, etc.....	19 51	.....	.....	.....	.....	.....	.....	.....	.....
Gabriel, H. W.....	Blacksmithing....	45 25	37 90	7 35	.....	.....	.....	.....	.....	.....
Gawne, J. W.....	2nd est. on track.	514 26	.....	.....	.....	.....	.....	.....	.....	.....
German Am. Pub. Co...	Advertising.....	7 60	.....	.....	.....	7 60	.....	.....	.....	.....

Apr.

May.

WATER WORKS.

SUBDIVISION OF WATER WORKS.—Continued.

Furnace Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and 1 rack.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
60 25	97 25	137 53	115 70								345 40		
63 75	119 99	126 76	129 10						40 75		100 71		
		29 33									11 00		200,000
	4 62	1 71											
	10 00												
		1 00											
									14 72				
								648 00					
								456 30					
112 50											45 90		
				1,111 04									
		53 45											
		8 00									11 51		
										514 26			

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense, Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
May	Southern, L. M.	Cash Refunded...	\$ 1,420 00	1,420 00	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
	Southworth, W. P. Co.	Soapine, etc.....	4 00	.....	.....	4 00	.....	.....	.....	.....
	Standard Oil Co.....	Oil.....	3 73	.....	.....	.....	.....	3 73	.....	.....
	Standard Tool Co.....	New Drills, etc..	64 25	.....	1 25	.....	.....	.....	.....	.....
	Stowe, Fuller & Co....	Brick.....	39 50	.....	.....	.....	.....	.....	39 50	.....
	Strong, Carlisle & Turney.....	} Packing, etc.....	24 12	.....	.....	.....	.....	.....	.....	24 12
	Strong, Cobb & Co.....		Lard Oil, etc.....	3 01	.....	.....	.....	52	.....	.....
	Thompson, John.....	Pipe, Nipples, etc	4 83	.....	.....	.....	.....	.....	4 83	.....
	Thompson Meter Co....	Water Meter.....	12 65	.....	.....	.....	.....	.....	.....	.....
	Upson Walton Co.....	Cotton Rope.....	1 33	.....	.....	.....	1 33	.....	.....	.....
	Vessel Owners Towing Co.....	} Use of Tug.....	28 00	.....	.....	.....	.....	.....	.....	.....
	Vulcan Brass Co.....		Valves.....	222 00	.....	.....	.....	.....	.....	.....
	Waechter Am Erie Pub. Co.....	} Advertising.....	9 50	.....	.....	9 50	.....	.....	.....	.....
	Walsh, Edward.....		Driving.....	30 00	.....	.....	.....	.....	.....	.....
	Ward & Jackson.....	Blacksmithing...	48 58	.....	.....	.....	.....	.....	48 58	.....
	Willson, John.....	Brick.....	38 95	.....	.....	.....	.....	.....	.....	.....
	Woodland & W. S. R. R. Co.....	} Car Tickets.....	50 00	.....	.....	50 00	.....	.....	.....	.....
World Publishing Co...	Advertising.....		8 46	.....	.....	8 46	.....	.....	.....
June	Armstrong, W. W. Treas	Pay-rolls.....	9,006 45	4,777 11	388 40	1,369 52	.....	1 578 93	.....	200 24
	Armstrong, W. W. Treas	Special Tax Eng. Hae.(Dock Dredg	86 00	.....	.....	.....	86 00	.....	.....	.....
	Armstrong, W. W. Treas	Pay Rolls.....	9,705 32	5,183 04	286 73	1,410 13	.....	1,714 96	.....	197 50
	Barkwill, C. G.....	Brick	44 00	.....	.....	.....	.....	.....	.....	.....
	Barnes, G. C.....	Grate Bars.....	129 58	.....	.....	.....	.....	129 58	.....	.....
	Bingham, Wm. The....	Hardware.....	84 97	9 75	7 20	.....	1 05	6 60	.....	.....
	Bohm & Stuhr.....	Lumber.....	73 75	73 75	.....	.....	.....	.....	.....	.....
	Borden & Selleck Co...	Fin. Est. on Trk.	128 75	.....	.....	.....	.....	.....	.....	.....
	Borden & Selleck Co...	Rep. & Bld. Scls.	122 42	11 13	.....	.....	.....	.....	.....	.....
	Born Steel Range Mfg. Co.....	} Leath. Pump Sck	6 00	6 00	.....	.....	.....	.....	.....	.....
	Brooks & Co.....		Stationery.....	2 90	.....	.....	2 90	.....	.....	.....
Brooks Building Co....	Sprinkl. Bxs. etc	11 55	11 55	.....	.....	.....	.....	.....	.....
Builders Supply Co....	Cement.....	1 85	1 85	.....	.....	.....	.....	.....	.....
Burton, C. H.....	Belting.....	18 38	.....	.....	.....	.....	18 38	.....	.....

WATER WORKS.

SUBDIVISION OF WATER WORKS—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Sales and Truck.	Miscellaneous Constr. action.	New Worthington Engine.	Water Works Bonds.
				63 00									
			2 49										
			12 65										
				222 00							28 00		
											30 00		
			24 00								14 95		
	60 25	117 00	73 40	118 75					71 18	15 76	240 91		
	98 75	140 37	117 64	133 42					261 63		161 15		
		5 50									38 50		
			7 82	1 32				51 23					
										128 75			
										111 29			

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
June	Imp. Oil & Grease Co.	Cyl. Oil.....	65 76	\$.....	\$.....	\$.....	\$.....	\$ 65 76	\$.....	\$.....
	Kennedy, DeForest & P. Co. }	Union Grease.....	5 00	.....	.....	.....	.....	.....	.....	.....
	Kingsley, M. W. Supt.	Cash Advanced...	217 52	57 37	.....	35 49	.....	.....	.....	.....
	Lake Shore Foundry, April.....	Pipe.....	27,929 55	27929 55	.....	.....	.....	.....	.....	.....
	Lake Shore Foundry, May.....	Pipe.....	14,307 22	14307 22	.....	.....	.....	.....	.....	.....
	Leader Printing Co.....	Advertising.....	7 37	.....	.....	.....	.....	.....	.....	.....
	Luetkemeyer, H. W. & Son.....	Hardware.....	61 61	5 50	.....	.....	.....	35 21	.....	8 00
	McAuley, Mary.....	{ Laundring Towels..... }	8 50	.....	.....	8 50	.....	.....	.....	.....
	McIntosh, Hunting-ton Co.....	Hardware.....	6 66	2 70	.....	.....	.....	.....	.....	.....
	Macbeth & Co.....	Manhole Covers ..	22 50	.....	.....	.....	.....	.....	.....	.....
	Manning, Thos. Jr. & Co.....	Forging.....	29 97	.....	.....	.....	.....	.....	.....	.....
	Martin Barris Co., The	Lumber.....	18 00	.....	.....	.....	.....	.....	.....	.....
	Michigan Brass & I. Co.	{ BranchSleeve and Valve. }	54 00	54 00	.....	.....	.....	.....	.....	.....
	Neville Dennis.....	Oil.....	3 10	3 10	.....	.....	.....	.....	.....	.....
	Newcomb, W. B.....	Cash Refunded...	1,300 00	.....	.....	.....	.....	.....	.....	.....
	N. Y. L. E. & W. R. R.	Weighing Coal ...	53 00	.....	.....	.....	.....	53 00	.....	.....
	Nixon, W. John.....	Plumbing.....	68 70	68 70	.....	.....	.....	.....	.....	.....
	Osborne, Seager & Co.	Coal.....	3,031 41	.....	.....	.....	.....	2,877 58	.....	153 83
	Perkins Douglass.....	{ Damage to Carriage..... }	25 25	25 25	.....	.....	.....	.....	.....	.....
	Poplowsky, Lewis.....	Plumbing.....	79 64	79 64	.....	.....	.....	.....	.....	.....
Purdy & McNeil Co ...	Lumber.....	29 59	16 05	.....	.....	.....	.....	.....	.....
Reader Quarry.....	Paving Stone.....	220 00	.....	.....	.....	.....	.....	.....	.....
Rhodes Beidler Coal Co., The.....	Coal.....	37 00	30 00	.....	7 00	.....	.....	.....	.....
Rible's Livery and Transfer.....	{ Use of Horse and Wagon }	193 75	.....	52 50	.....	.....	.....	.....	.....
Rose, H. P.....	Cash Refunded...	1,157 00	.....	.....	.....	.....	.....	.....	.....
Sealand, F. E.....	Teaming.....	41 50	28 50	.....	.....	.....	.....	.....	.....
Southworth, W. P. Co., The.....	Soap, etc.....	6 55	.....	.....	1 42	.....	.....	.....	5 13	
Standard Oil Co.....	Oil.....	20 40	.....	.....	.....	.....	16 59	.....	3 81	
Standard Tool Co.....	Drills.....	9 00	.....	.....	.....	.....	.....	.....	.....
Sterling, Welch & Co.	Window Shades...	7 00	.....	.....	.....	.....	.....	.....	.....
Stewart, Jas. W.	Cash Refunded...	560 00	.....	.....	.....	.....	.....	.....	.....
Strong, Cobb & Co.....	Soap.....	5 40	.....	.....	5 40	.....	.....	.....	.....

WATER WORKS.

SUBDIVISION OF WATER WORKS—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
	5 00												
			3 48			121 18							
	1 35		70						7 37				
			22 50					3 95			10 85		
			1 14						28 83	18 00			
					1,300 00								
		220 00											
			46 75	94 50									
			4 00		1,157 00			9 00					
				9 00									
					560 00				7 00				

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dept.	General Contingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
July.	Bingham, Wm. Co.....	Hardware.....	\$ 26 35	\$.....	\$.....	\$.....	\$.....	\$ 14 68	\$.....	\$.....
	Brooks Building Co.....	Sprinkler Boxes..	10 80	10 80	.....	.....	.....	.....	.....	.....
	Brush Electric Co.....	Rep. to Dynamo..	194 05	.....	.....	.....	.....	.....	194 05	.....
	leve. Ship Bld. Co.....	Forging.....	24 79	.....	.....	.....	.....	.....	24 79	.....
	Cleveland Supply Co...	Packing.....	64 94	64 94	.....	.....	.....	.....	.....	.....
	Cleve.SteamBoilerWks	Rep'g Boilers.....	240 58	.....	.....	.....	.....	.....	240 58	.....
	Dettrick, A. A.....	Rem. night so:l..	5 30	.....	.....	.....	.....	.....	.....	5 30
	Gibson & Price	Pig lead.....	1,197 90	1,197 90	.....	.....	.....	.....	.....	.....
	Ingraham, T.....	Cotton waste.....	43 84	.....	.....	.....	.....	43 84	.....	.....
	Ludlow Valve Mfg. Co.	Valves.....	2,704 35	2,704 35	.....	.....	.....	.....	.....	.....
	Purdy & McNeil Co....	Lumber.....	19 94	.....	.....	.....	.....	.....	.....	.....
	Reader Quarry.....	Stone.....	120 62	.....	.....	.....	.....	.....	.....	.....
	Van Tassel, A. T.....	Hardwa e.....	9 86	.....	.....	.....	.....	9 86	.....	.....
	Ward & Jackson.....	Valve wrenches ..	6 01	.....	.....	.....	.....	6 01	.....	.....
	Aiken, L. H.	Turning valves ..	5 00	5 00	.....	.....	.....	.....	.....	.....
	Adams, A.....	Blacksmithing....	7 50	.....	7 50	.....	.....	.....	.....	.....
	Barkwill, C. G.....	Brick.....	29 33	.....	.....	.....	.....	.....	.....	.....
	Bolger, T. J.....	B'ldg coal sheds..	264 00	.....	.....	.....	.....	.....	.....	.....
	Burns, A. M.....	Cash refunded....	625 00	.....	.....	.....	.....	.....	.....	.....
	Cleve. Prtg. & Pub. Co.	Ass'mt books.....	51 92	.....	.....	51 92	.....	.....	.....	.....
	Daykin Bros.....	Stop cock boxes..	1,180 73	.....	.....	.....	.....	.....	.....	.....
	Farnan Brass Works...	Corp cocks.....	212 75	.....	.....	.....	.....	.....	.....	.....
	Mueller Mfg. Co.....	Tap. machine Pts.	4 85	.....	.....	.....	.....	.....	.....	.....
	Murphy & Miller.....	Carpenter work....	3 25	.....	.....	.....	.....	.....	.....	.....
	N. Y. L. E. & W. R. R.	Weighing coal.....	84 50	.....	.....	.....	.....	84 50	.....	.....
Osborne, A. T. & Co...	Ink.....	1 00	.....	.....	1 00	.....	.....	.....	.....
Osborne Seager Co.....	Coal.....	4,148 48	.....	.....	.....	.....	3,998 62	.....	159 86	
Striebenger & Martin..	Hose.....	5 00	.....	.....	.....	.....	.....	.....	.....
Goodman, F. C.....	Cash refunded....	740 00	.....	.....	.....	.....	.....	.....	.....
Worthington, H. R.....	1st est. new eng..	10,000 00	.....	.....	.....	.....	.....	.....	.....
Beers, T. P. & Co.....	Coment.....	4 12	.....	.....	.....	.....	.....	.....	.....
Aug.	Bingham, Wm. Co.....	Hardware.....	21 25	.....	.....	.....	.....	.....	21 25	.....

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
		\$ 11 67											
		120 62							19 94				
			29 33										
					625 00						264 00		
				1,180 73									
				212 75									
				4 85					3 25				
	5 00												
					740 00								
												10,000 00	
									4 12				

SUBDIVISION OF WATER WORKS—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Credits.	Water Repts Rev'd.	Interest Account.	New Boiler Pipe and Boiler.	Crib Repairs.	Track Cais and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
			7 00										
			5 50										
			8 00										
			1 64										
			106 73						7 51				

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt Dept.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
August.	Street Dept.....	Repaving Streets	\$ 59 25	\$.....	\$ 59 25	\$.....	\$.....	\$.....	\$.....	\$.....
	Upson Nut Co	Lag Screws.....	3 77	3 77						
	Upson, Walton & Co ..	Rope, Paint, etc..	17 20							
	Armstrong, W. W. Treas	Pay Rolls.....	7,388 62	2,988 60	285 80	1,445 23		1,779 14		197 50
	Campbell, Geo.....	Cash Advanced...	5 00				5 00			
	Clev. Steam Boiler Wks	Repairing Boilers	241 70						241 70	
	Hanson, Geo.....	Cash Advanced...	50				50			
	Ludlow Valve Mfg. Co.	Valves.....	2,588 00	2,588 00						
	Murphy Iron Wks.....	'st and Final Est.	6,083 00							
	Southworth, W. P.....	Soapine.....	1 20			1 20				
	Upson-Walton Co.....	White Lead.....	11 50							
	Vincent-Barstow Co....	Filing Case.....	6 00			6 00				
	Barge & Gross.....	Glass.....	1 00			1 00				
	Barkwill, C. G.....	Brick.....	5 50	5 50						
	Born Steel Range Co....	Charcoal.....	40	40						
	Brooks Bldg. Co.....	Machine work...	12 24							
	Building Supply Co....	Pipe, etc.....	2 63	2 63						
	Foster, Ed. H.....	Brackets, etc	2 68					2 68		
	Fisher, E. W. Co.....	Pipe Fittings...	3 14	3 14						
	Fisher & Willson.....	Lumber.....	15 96							
	Gibson & Price.....	Lead.....	140 47	140 47						
	Armstrong, W. W. Treas	Interest on Bonds	31,075 00							
	Kamp, Jos. F.....	Cash Advanced...	5 00				5 00			
	Luetkemeyer, W. H. ...	Hardware.....	4 62	1 10					92	
	Moloney, Michael.....	Cash Advanced...	5 00				5 00			
	Nixon, J hn W.....	Plumbing.....	17 36	17 36						
	Osborn, A. T. & Co.....	Paper.....	5 00			5 00				
	Standard Oil Co.....	Cylinder Oil...	3 70					3 70		
	Worthington, H. R.....	2d Est. on Engine	11,000 00							
	Kirchner, Chas.....	Cash Advanced...	5 00				5 00			
Wagner, Henry.....	Cash Advanced...	5 00				5 00				
Abrams, R. W.....	Tallow.....	9 00					9 00			

WATER WORKS.

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Motor Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
	60 25	89 00	72 00	119 02				6,083 00	17 20	290 32	61 75		
							31,075 00		11 50	12 24			
									15 96				
									2 60				
												11,000 00	

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
August.	Builders' Supply Co.....	Cement.....	7 50	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
	Cleveland Gauge Co.....	Repairing gauge.....	1 50	.....	.....	1 50	.....	.....	.....	.....
	Cleveland Ship Bld'g Co.....	Forging.....	16 75	.....	.....	.....	.....	.....	16 75	.....
	Farnan's Brass Works.....	Corp cocks, etc.....	213 89	.....	.....	.....	.....	.....	18 89	.....
	Harbaugh & Co.....	Cylinder oil.....	68 16	.....	.....	.....	.....	68 16	.....	.....
	Imp'l Oil & Grease Co.....	Cylinder oil.....	16 64	.....	.....	.....	.....	.....	.....	16 64
	McIntosh, Hunting- ton Co.....	Sheet packing.....	17 40	.....	.....	.....	.....	17 40	.....	.....
	Neville Dennis.....	Oil.....	50	50	.....	.....	.....	.....	.....	.....
	Bingham, Wm. Co.....	Hardware.....	33 39	.....	.....	.....	.....	33 39	.....	.....
	Cleveland Printing & Publishing Co.....	Water Notices.....	16 75	.....	.....	16 75	.....	.....	.....	.....
	Jones, E. H. & Co.....	Meters, etc.....	915 92	.....	.....	.....	.....	.....	.....	.....
	Hendrickson, Thos.....	Use of scow.....	56 00	.....	.....	.....	.....	.....	.....	.....
	Manning, Thos. Jr. & Co.....	Forging.....	7 04	1 05	.....	.....	.....	.....	5 99	.....
	McBeth & Co.....	Man holes and } covers.....	45 00	45 00	.....	.....	.....	.....	.....	.....
	N. Y., L. E. & W. R. R.....	Switching cars.....	86 00	.....	.....	.....	.....	86 00	.....	.....
	Osborne, Seager & Co.....	Coal.....	4,020 13	.....	.....	.....	.....	3,932 07	.....	88 06
	Poplowsky, Louis.....	Plumbing.....	145 64	145 64	.....	.....	.....	.....	.....	.....
	Southworth, W. P.....	Soapine, etc.....	5 27	.....	.....	.....	.....	.....	.....	.....
	Standard Oil Co.....	Oil.....	3 70	3 70	.....	.....	.....	.....	.....	.....
	Upson & Walton Co.....	Oars, rowlocks, &c.....	6 82	.....	.....	.....	.....	.....	.....	.....
	Van Tassel, A. T. & Co.....	Hardware.....	15 52	.....	.....	.....	.....	15 52	.....	.....
	V. O. Tug Line.....	Use of tug.....	102 00	.....	.....	.....	.....	.....	.....	.....
	Winkel, Casper.....	Cash advanced.....	1 60	.....	.....	.....	1 60	.....	.....	.....
	Canfield Oil Co.....	Cylinder oil.....	32 96	.....	.....	.....	.....	32 96	.....	.....
Armstrong, W. W. Treas.....	Pay-rolls.....	7,663 60	3,187 58	221 98	1,430 59	.....	1,873 54	.....	197 94	
Armstrong, W. W. Treas.....	Pay-rolls, 1st } day, Sep. 1, '93	120 75	120 75	.....	.....	.....	.....	.....	.....
Barkwill, C. G.....	Brick.....	6 66	6 66	.....	.....	.....	.....	.....	.....
Building Supply Co.....	Sewer pipe.....	43	43	.....	.....	.....	.....	.....	.....
Cleveland Gas Light } & Coke Co.....	Gas.....	80	.....	.....	80	.....	.....	.....	.....
Cleveland Steam } Boiler Works.....	Repairing boilers.....	241 78	.....	.....	.....	.....	.....	241 78	.....
Gibson & Price.....	Lead.....	109 67	109 67	.....	.....	.....	.....	.....	.....
Hart, H. G., M. D.....	Medical services.....	58 50	58 50	.....	.....	.....	.....	.....	.....

September.

WATER WORKS.

SUBDIVISION OF WATER WORKS—Continued.

Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.	Payment Function Expense.
			7 50								
				185 00							
			915 92								
								56 00			
									5 27		
									6 82		
									102 00		
62 00	72 54	101 26	117 18					207 40		122 73	

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
September.	Howle, Henry	Cash advanced	\$ 5 00				\$ 5 00			
	Lake Erie Ice Co.	Ice	6 06			4 20				1 86
	Luetkemeyer, W. H.	Hardware	2 90							
	Manning, Thos. Jr. & Co.	Sprinkl'r coupl'gs	23 89		23 89					
	Ohio Rubber Co.	Gaskets, etc	2 80							
	Osborne, A. T.	Oil, etc.	3 08							
	Plain Dealer Pub. Co.	Advertising	11 33				11 33			
	Standard Foundry & Mfg. Co.	Square boxes	188 75							
	Cleveland Pr't'g & Pub. Co.	Assessment books	3 00			3 00				
	Daykin Bros.	Stop cock boxes	1,106 29							
	Kingsley, M. W., Supt.	Cash advanced	101 39							
	Ludlow Valve Co.	Valves	616 40	616 40						
	Riblet's Liv. & Tran. Co.	Use of horse and wagon	180 00		83 25					
	Sealand, F. E.	Teaming	16 00	16 00						
	Ward & Jackson	Blacksmithing	60 73							
	Crane Co. (Chicago, Ill)	Brass screws	28 60	28 60						
	Foster, E. H.	Galvanized elbow	24							
	Gibson & Price	Lead	79 00	79 00						
	Gleason, John	Cash refunded	5 00					5 00		
	Luetkemeyer, W. H. & Son.	Pick handles	88	88						
	Monks, P. H.	Cash refunded	5 00					5 00		
	Murphy Iron Wks.	1st setting boilers	2,787 50							
	Rhodes-Beidler Coal Co.	Coal	8 00	8 00						
	Wheeler, G. W.	Blacksmithing	31 60	21 35	10 25					
	Wood, R. D. & Co.	Fire hydrants	988 40	988 40						
	Worthington, H. R.	2d est. on engines	11,000 00							
	Armstrong, W. W. Treas	Pay-rolls	6,840 02	2,639 72	311 58	1,434 29			1,795 91	197 50
	Camp, Jos. F.	Cash refunded	5 00					5 00		
	Cleveland Ship B'ld'g Co.	Forging	42 69							42 69
	Cleveland Steam Gauge Co.	Repair'g steam gauge	5 75							5 75
	Daus, Wm., M. D.	Medical services	12 00	12 00						
	Depart. Public Wks	Repaving streets	251 72	251 72						

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Truck Scales and Truck.	Miscellaneous Construction.	New Worthington Engine	Water Works Bonds.
			2 90										
			3 08	2 80									
				188 75									
				1,106 29		101 39							
				66 75									
			24						60 73				
								2,787 50					
37 50	68 00	78 25	113 79						30 00		133 30	11,000 00	

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt's Depart't.	General Contingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
September	Jones, E. H. & Co.....	Meters.....	\$ 92 64	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
	Osborne, A. T. & Co.....	Asphalt paint.....	5 80							
	Standard Oil Co.....	Oil.....	3 77					3 77		
	Strong, Carlisle & Turney.....	Rub. pack'g, etc.....	39 34					39 34		
	Thompson, John.....	Valves.....	45 00						45 00	
	Upson-Walton Co.....	Oakum.....	1 00					1 00		
	Beck, C. T.....	Sub. Leader, Jan. 1 to Aug. 15.....	5 18			5 18				
	Bingham, Wm. Co.....	Rope.....	1 42	1 42						
	Brooks, T. H. & Co.....	Eye beams.....	34 82						34 82	
	Crane Co., Chicago, Ill.	Check valve.....	9 13	9 13						
	Fisher & Wilson.....	Lumber.....	45							
	Gibson & Price.....	Lead.....	246 04	246 04						
	Goodwin, C.....	Use of boat.....	2 25							
	Hempy, H. M. & Son.....	Plugs.....	18 00	18 00						
	Kostering, Frank.....	Mason work.....	50 80							
	Luetkemeyer, W. H & Son.....	Hardware.....	14 84					10 75		24
	Manning, Thos. Jr. & Co.	Pattern for box.....	21 78							
	N. Y. L. E. & W. R. R.	Switching cars.....	40 50					40 50		
	Nydecker, F. L., M. D.	Medical services.....	6 40	6 40						
	Wheeler, G. W.....	Blacksmithing.....	7 35	7 35						
	Bingham, Wm. Co.....	Copper.....	63							63
	Builders Supply Co.....	Fire clay.....	12 00						12 00	
	Chafer & Becker.....	Bushings.....	63						63	
	Cleve. Prt'g & Pub. Co.	Assessm't blanks.....	3 25			3 25				
	Hewett, Wm.....	Cash refunded.....	5 00				5 00			
	Luetkemeyer & Son.....	Hardware.....	5 45							
	Moloney, Michael.....	Cash refunded.....	5 00				5 00			
Metcalf, Walter.....	Diving, etc.....	39 39								
Osborne, A. T. & Co.	Paint, etc.....	56 65								
Schultz, Chas.....	Cash refunded.....	5 00				5 00				
Standard Oil Co.....	Oil.....	9 09					9 09			
Barnes, G. C.....	Grate bars.....	117 96							117 96	

Oct.

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pump Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditor.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
			82 64						5 80				
			45						2 25				
								50 80	3 85				
				21 68									
		5 45											
		56 66							39 30				

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
September.	Born Steel Range Mfg. Co.....	Torches, etc.....	\$ 9 60	\$ 9 60	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
	Brooks Building Co.....	Screen Frames.....	18 55							
	Builders Supply Co.....	Sewer Pipe.....	70		70					
	Burnett R. P.....	Repaving.....	165 00	165 00						
	Fisher & Wilson.....	Lumber.....	2 70							
	Foster, E. H.....	Pipe Fittings.....	2 15							
	Gibson & Price.....	Lead.....	507 32	507 32						
	Harbaugh, H. G.....	Cylinder Oil.....	31 20					31 20		
	Kingsley, M. W. Sup't.	Cash Advanced...	54 32			41 75				
	Kirchner, Chas.....	Cash Advanced...	5 00				5 00			
	Ludlow Valve Mfg Co.	Valves.....	504 50	504 50						
	Luetkemeyer, W. H.....	Hardware.....	9 98	9 98						
	McAuley, Mary.....	Washing Towels.	9 50			9 50				
	Manning, Thos., Jr.....	Valves.....	6 30		6 30					
	Osborne, Seager & Co.....	Coal.....	3,085 25					2,977 17		108 08
Pfeifer, Stephen.....	Cash Refunded...	5 00				5 00				
Ohio Rubber Co.....	Rubber Boots.....	12 75								
Schmitt, Chas.....	Cash Refunded...	5 00				5 00				
Strong, Carlisle & Turney	Gaskets.....	6 29								
Armstrong, W. W., Treasurer.....	Pay Rolls.....	7,758 93	3,279 99	329 63	1,514 80		1,823 82		197 59	
Builders Supply Co.....	Sewer Pipe.....	2 18	2 18							
Campbell, Geo.....	Cash Refunded...	5 00				5 00				
Cleveland Printing and Pub. Co.....	Envelopes, etc.....	32 00			32 00					
Cleveland Steam Boiler Works.....	Repairing Boilers	483 33						483 33		
Cleveland Supply Co.....	Jute Packing.....	38 61	38 61							
Cleveland Telephone Co.....	Telephone Services.....	42 50		12 50		25 00				
Daykin Bros.....	Stop Cook Boxes.	1,163 87								
Farnans Brass Wks.....	Globe Valves.....	299 75	244 80					54 95		
Fasnacht Bros.....	Brooms.....	6 00					6 00			
Fisher & Wilson.....	Lumber.....	17 41	13 91							
Foster, E. H.....	Float Valve.....	1 75	1 75							
Gibson & Price.....	Lead.....	50 40	59 40							

October.

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$		
			2 15			12 57			2 70		18 55		
			12 75										
	2 00	4 20											
60 25	162 88	88 52	115 14						26 00		160 40		
5 00				1,163 87					3 50				

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
October.	Green, R. E.	Plumbing ..	\$ 7 38	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 7 38	\$.....
	Harbaugh & Co.....	Cyl. Oil.....	67 20	.....	.....	.....	.....	67 20	.....	.....
	Hempy, H. M. & Co...	Plugs.....	13 20	13 20	.....	.....	.....	.....	.....	.....
	Hewitt, W. A.....	Cash Refunded...	1 50	.....	.....	.....	1 50	.....	.....	.....
	Howle, Henry.....	Cash Refunded...	5 00	.....	.....	.....	5 00	.....	.....	.....
	Hoffman, Jacob, Wagon Works.....	Repairing Wagon	4 80	.....	4 80	.....	.....	.....	.....	.....
	Kamp, Jos. F.....		Cash Refunded...	5 00	.....	.....	.....	5 00	.....	.....
	Manning, Thos. & Co...	Check Valves, etc.	42 07	36 32	.....	.....	.....	.....	5 75	.....
	Marquardt, Aug.....	Cash Refunded...	5 00	.....	.....	.....	5 00	.....	.....	.....
	Purdy & McNeil.....	Lumber.....	7 54	.....	.....	.....	.....	.....	.....	.....
	ReaderSand & StoneCo.	Stones.....	38 75	.....	.....	.....	.....	.....	.....	.....
	Southworth, W. P.	Soda Ash.....	90	.....	.....	.....	.....	.....	.....	90
	Standard Oil Co.	Oil.....	7 47	.....	.....	.....	.....	3 77	.....	3 70
	Standard Tool Co.....	Drills.....	45 00	.....	.....	.....	.....	.....	.....	.....
	Steiner, Adolph.....	Medical Services.	77 00	77 00	.....	.....	.....	.....	.....	.....
	Strong, Carlisle & Tur'y	Bolts	14 54	.....	.....	.....	.....	14 54	.....	.....
	Upson-Walton Co.....	Anchor Lamp.....	15 00	.....	.....	.....	.....	.....	.....	.....
	Wheeler, G. W	Blacksmithing...	61 75	61 75	.....	.....	.....	.....	.....	.....
	Clev. City Cable R. R. Co.	Cash Refunded...	1,118 00	.....	.....	.....	.....	.....	.....	.....
	Bingham, Wm.....	Globe Valves.....	6 95	.....	.....	.....	.....	6 95	.....	.....
	Canfield Oil Co	Cylinder Oil.....	66 24	.....	.....	.....	.....	66 24	.....	.....
	Gibson & Price.....	Lead	471 44	471 44	.....	.....	.....	.....	.....	.....
	McGowan, Thos.....	Blacksmithing...	20 70	20 70	.....	.....	.....	.....	.....	.....
	McIntosh-Huntington.	Valves, etc.....	10 81	10 81	.....	.....	.....	.....	.....	.....
	Wheeler, G. W	Blacksmithing...	8 65	8 65	.....	.....	.....	.....	.....	.....
	Bingham, Wm.....	Hardware.....	3 60	.....	.....	.....	.....	3 60	.....	.....
	Card, H. P.....	Sample Coal.....	279 73	.....	.....	.....	.....	279 73	.....	.....
	Fisher & Wilson Co.....	Lumber	88 83	88 83	.....	.....	.....	.....	.....	.....
	Gibson & Price.....	Lead	240 22	240 22	.....	.....	.....	.....	.....	.....
	Glauber Brass Mfg. Co.	Repairing Valves	10 75	10 75	.....	.....	.....	.....	.....	.....
Lake Shore Foundry..	1-6 Tee.....	8 65	8 65	.....	.....	.....	.....	.....	.....
Manning, Thos. Jr.....	Lathe Work	8 43	.....	.....	.....	.....	.....	8 43	.....

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
		38 75		45 00	1,118 00				7 51	15 00			

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt Depart.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
October.	Nixon, John W.....	Plumbing.....	\$ 10 82	\$ 10 82	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
	People's Gas Co.....	Gas.....	31 12					31 12		
	Rhodes, Beidler Coal	Coal.....	10 00	10 00						
	Riblet's Livery and } Transfer Co..... }	Use of horse & } Wagon..... }	169 00		45 50					
	Sanman, Peter.....	Carpenter work...	5 65				5 65			
	Strong, Carlisle & } Turney..... }	Hardware.....	2 55					2 55		
	Thompson, John.....	Rubber valves....	72 00						72 00	
	Vessel Owners' Tow- } ing Co..... }	Use of tug.....	15 00							
	Wagner, Henry.....	Car fare.....	5 00				5 00			
	Wheeler, G. W.....	Blacksmithing...	7 00	7 00						
	Adams, A.....	Blacksmithing ...	6 00		6 00					
	Callaghan J. & Son	Smoke stack.....	16 00							
	Cleveland Printing & } Publishing Co..... }	Pads.....	15 85			15 85				
	Kelley, Wm. S.....	Saw dust.....	2 00				2 00			
	Nickel, Geo.....	Car fare.....	5 00				5 00			
	Peck, W. H. H. & Co.	Packing.....	20 79					20 79		
	Schmitt, Geo. J.....	Car fare.....	5 00				5 00			
	Stranahan, H. B.....	Map.....	3 75				3 75			
	Strong, C. H. & Son...	Coal for crib.....	10 00							
	Rose, H. P.....	Cash refunded....	274 50							
	Thompson, John.....	Forging.....	10 67						10 67	
	Upson Walton & Co....	Rope, etc.....	5 00	5 00						
	Avery, John T.....	Cash refunded....	274 50							
	Barkwill, C. G.....	Brick.....	20 00					20 00		
	Forest City Brass Wks	Repairing meters	154 40							
	Cason, John.....	Car fare.....	5 00				5 00			
	Martin Barris Co.....	Lumber.....	34 80						34 80	
	Michigan Brass and } Iron Works..... }	Valves.....	486 00	486 00						
	Worthington, H. R....	Third estimate....	11,000 00							
	Armstrong, W. W. Treas	Pay-rolls.....	8,733 77	4,270 17	408 68	1,545 32		1,697 62		197 50
Builders Supply Co....	Cement.....	8 27					8 27			
Burt, S. H. & Co.....	Lawn seed.....	15 00								

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expenses Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Palmer Pumping Station Expense.
October.	Chafer & Becker.....	Steam traps, etc..	\$ 79 32	\$.....	\$.....	\$.....	\$.....	\$ 79 32	\$.....	\$.....
	Farnan's Brass Wks....	Corporation cocks	257 00							
	Fire & Water.....	Sub. June, '93, } to June, '94... }	3 00				3 00			
	Fisher & Wilson.....	Lumber.....	14 62					14 62		
	Gibson & Price.....	Lead.....	380 64	380 64						
	Hempy, H. M. & Son...	Plugs.....	19 80	19 80						
	Kinney & Levan.....	Lanterns.....	9 00	9 00						
	McIntosh-Hunting- ton Co.....	Valves, etc.....	21 84		8 60				13 24	
	Purdy & McNeil Co....	Lumber.....	78 25						78 25	
	Rhodes-Beidler Co.....	Coal.....	11 50	11 50						
	Standard Oil Co.....	Oil.....	7 36					7 36		
	Strong, Carlisle & Turney.....	Hardware.....	44 03	3 20				6 50	28 53	
	Wood Bros.....	Sewer pipe.....	1 88						1 88	
	Barge & Gross.....	Glass.....	4 65				4 65			
	Daykin Bros.....	Stop cock boxes..	158 72							
	Hercules Powder Co...	Powder.....	5 10	5 10						
	Hewitt, E. A. & Co.....	Keys.....	3 35				3 35			
	Kirchner, C. T.....	Car fare.....	5 00				5 00			
	Ludlow Valve Co.....	Valves.....	1,349 15	1,349 15						
	Metcalf, W. V.....	Diving.....	20 50							
Poplowsky, Louis.....	Plumbing.....	9 80	9 80							
Sterling, Welch & Co...	Shades.....	1 93				1 93				
Winn & Judson.....	Blank books.....	3 75				3 75				
Wood, John.....	Car fare.....	5 00				5 00				
Forest City Brass Wks.	Valves.....	7 96						7 96		
Armstrong, W. W. Treas	Pay-rolls.....	10,020 81	5,314 86	397 06	1,508 99		1,767 06		197 50	
Fleaharty, J. H. & Co...	Stamp ribbons.....	4 50			4 50					
Gibson & Price.....	Lead.....	36 94	36 94							
Hewett, E. A. & Co.....	Castings, etc.....	21 83						21 83		
Rhodes-Beidler Co.....	Coal.....	2 00	2 00							
Standard Oil Co.....	Oil.....	3 77					3 77			
Wood, R. D. & Co.....	Hydrants.....	1,375 26	1,375 26							

November.

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
				257 00									
									5 71				
				158 72									
		20 50											
62 00	146 67	246 52	119 58						42 50		188 05		

WATER WORKS.

SUBDIVISION OF WATER WORKS—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
			13 00										
			13 55										
			2 05						27 00				
		42 01					13000 00						
77 50			7 50										
											5 50		

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
November	Hercules Powder Co....	Powder.....	\$ 1 70	\$ 1 70						
	Hewitt, A. E. & Co.....	Blacksmithing....	16 48	5 65		10 83				
	Howle, Henry.....	Car Fare.....	5 00				5 00			
	Kamp, Jos. F.....	Car Fare.....	5 00				5 00			
	Luetkemeyer, W. H. & Son.....	Brooms.....	18 00	18 00						
	Osborne, Seager & Co....	Coal.....	2,765 65					2,765 66		
	Poplowski, Louis.....	Plumbing.....	200 48	200 48						
	Purdy & McNeil Co.....	Lumber.....	4 32	4 32						
	Rible't's Livery & T. Co.	Use horse & wag'n	170 25		18 00					
	Savage, J. B.....	Blank books.....	6 25			6 25				
	Schulz, Chas.....	Car fare.....	5 00				5 00			
	Slater, D. T.....	Teaming.....	11 00					11 00		
	Southworth, W P.....	Soap.....	3 65							3 65
	Strong, Carlisle & Turney	Hardware.....	252 23	6 50					245 73	
	Vessel Own. Tug Line..	Use of tug.....	6 00							
	Wheeler, G. W.....	Blacksmithing...	80 25	73 65	6 60					
	Worthington, H. R.....	Rubber buffers...	21 33							
	Armstrong, W. W. Treas	Pay-rolls.....	9,455 62	4,775 62	353 24	1,618 69		1,727 01		197 50
	Luetkemeyer, W. H. & Son.....	Hardware.....	4 92						4 92	
	Bridge Fund.....	Carpenter work...	22 00							
	Builders Supply Co.....	Cement.....	3 75							
	Campbell, Geo.....	Car fare.....	5 00				5 00			
	City Store Room.....	Stationery.....	49 93				49 93			
	Cleve. Directory Pub. Co	1 copy of direct'y	5 00				5 00			
	Cleveland Press.....	Advertising.....	7 00				7 00			
	Cleve. Ship Bldg. Co...	Forging.....	62 00							
	Cleveland World.....	Advertising.....	7 50				7 50			
	Enterprise Oil & Sup. Co.	Grease cups.....	32 67							
	Foster, Ewd. H.....	1 pipe, etc.....	56 35							
	Gibson & Price.....	Lead.....	130 25	130 25						
	Hempy, H. M. & Son...	Plugs.....	19 80	19 80						
	Hewitt, E. A. & Co.....	Brass checks, etc.	14 85		85	14 00				

SUBDIVISION OF WATER WORKS—Continued.

Fairmount Pump Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
			87 50	64 17									
			2, 33						6 00				
143 60	19 25		261 61	114 60					9 75		162 75		
22 00			3 75										
											62 00		
											32 67		
											56 35		

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Supt Dep't	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
Nov.	Lutz, Leonard.....	Car Fare.....	5 00				5 00			
	Metcalf, Walter.....	{ Diving at W. } { S. P. H..... }	54 50							
	Osborne, Seager & Co...	Coal.....	32 59							
	Peck, W. H. H. & Co...	Boots, etc.....	9 61					8 00		
	Plain Dealer Pub. Co...	Advertising.....	6 23				6 23			
	Poplowsky, L.....	Plumbing.....	128 68	128 68						
	Purdy & McNeil Co...	Lumber.....	14 52							
	Rhodes & Beidler Co...	Coal.....	9 50	9 50						
	Strong, Carlisle & Turney.....	Wheel Barrows.....	24 00	24 00						
	Strong, Cobb & Co.....	Castor Oil, etc.....	19 40						19 40	
	Thomson, John.....	Blacksmithing.....	99 22							
	Tyler, Edward & Co...	Paint.....	12 11							
	Wagner, Henry.....	Car Fare.....	5 00				5 00			
	Wheeler, G. W.....	Blacksmithing.....	1 15							
	Barkwill, C. G.....	Brick.....	7 50							
	Builders' Supply Co.....	Cement.....	3 00						3 00	
	Cleveland Ship Building Co.....	Forging.....	6 97							
	Cleveland Steam Boiler Works.....	Repairing Boilers.....	983 77							983 77
	Forman, Bassett, Hatch & Co.....	{ Assess't } { Pocket Bks }	6 25				6 25			
	Gibson & Price.....	Lead.....	36 68	36 68						
	Leonard & Ellis.....	Cylinder Oil.....	91 80						91 80	
	Parker, A. A.....	Plumbing.....	4 50	4 50						
	Peoples Gas Light Co...	Gas.....	44 40						44 40	
	Reader Stone Co.....	Stone.....	137 17							
	Rhodes & Beidler Co...	Coal.....	2 00	2 00						
	Strong, Carlisle & Turney.....	Hardware.....	83							
	Upson, Walton & Co...	Oakum.....	1 35							1 35
	Ward & Jackson.....	Forging.....	88 73							70 25
	Brooks & Co.....	Stationery.....	2 25				2 25			
	Builders' Supply Co.....	Cement.....	148 50							
	Cleveland Faucet Co...	Pump Nipple.....	3 84							
	Daykin Bros.....	Stop Cock Boxes.....	528 00							

SUBDIVISION OF WATER WORKS.—Continued.

Water Works Construction Repairs.	Water Works Construction Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
	82 07	85 58				3 90					48 64		
	3 50										168 60		
		8 73	4 91						2 26		325 00		
			52 85								140 79		
											232 36		
											52 14		

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dept.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
November	Standard Oil Co.....	Oil.....	\$ 3 62	\$.....	\$.....	\$.....	\$.....	\$ 3 62	\$.....	\$.....
	Standard Tool Co.....	Drills.....	13 50							
	Strong, Carlisle & Tur'y	Hardware.....	10 00					10 00		
	East Cleveland R. R. Co	Car Tickets.....	10 00				10 00			
	Koch, Catharine Mrs...	Cash Advanced...	200 00							
	Beardsley, J. C.....	Car Fare.....	5 00				5 00			
	Clark, P'obt & Co., (Cincinnati, O.) }	Corporation Book	4 00				4 00			
	Cleveland Supply Co...	Jute Packing.....	17 06	17 06						
	Excelsior Iron Works..	Repairing Boiler.	231 45						231 45	
	Farnan's Brass Works.	Rep. Steam Gauge	3 50						3 50	
	Gibson & Price.....	Lead.....	161 67	161 67						
	December	Green, R. E.....	Plumbing.....	7 60	7 60					
Hewett, E. A. & Co.....		Castings.....	45 24							
Kirchner, Chas.....		Car Fare.....	5 00				5 00			
Madigan, Jos.....		Car Fare.....	5 00				5 00			
Manning, Thos. Jr. Co.		Forging.....	14 40				6 00	8 40		
Martin Barris Co.....		Lumber.....	12 87						12 87	
Nickel, Geo.....		Car Fare.....	5 00				5 00			
Peck, W. H. H. & Co...		Packing.....	44 82					44 82		
Potts, John.....		Car Fare.....	5 00				5 00			
Rhodes & Beidler Co...		Coal.....	8 00	8 00						
Strong, Carlisle & Tur'y		Hardware.....	136 03							
Wood, John.....		Car Fare.....	5 00				5 00			
Armstrong, W. W., Tres		Pay Rolls.....	8,720 60	4,248 36	317 94	1,710 60		1,646 93		197 50
Barnes, G. C.....		Grates.....	119 35							
Excelsior Iron Works..		Repairing Boiler.	150 65						150 65	
Manning, Thos. Jr. Co.		Forging.....	3 21						3 21	
Mich. Brass & Iron Wks		Sleeve & Valve...	104 00	104 00						
People's G.L. & Coke Co		Gas.....	70 24					70 24		
Purly & McNeil Co....	Lumber.....	39 35								
Rhodes & Beidler Co...	Coal.....	3 50				3 50				
Southworth, W. P. Co..	Candles, Soap, etc	4 00				4 00				

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
	37 50	33 50	205 23	110 33	200 00						45 54		
											136 03		
											212 62		
											39 35		

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con- tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Amount Pumping Station Expense.
December	Strong, Carlisle & Turney } Vessel Owners Tow- ing Co }	Hardware	32 40	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		Use of tug.....	6 00							
		Worthing, Henry R.....	Meter counters....	2 12						
		Forest City Brass Wks.....	Valves, etc.....	57 00	57 00					
		Hempy & Son.....	Plug	4 80	4 80					
		N.Y., L.E. & W.R. R. Co.....	Switching cars....	51 00				51 00		
		Purdy & McNeil.....	Lumber.....	4 96						
		Strong, Carlisle & Turney } City Foundry Co.....	Valves, etc.....	133 04			3 65			
			Heads & flanges.....	71 78						
		Clifford Bros. & Hoffman } Hewitt, E. A. & Co.....	Charcoal.....	3 13	3 13					
			Blacksmithing....	2 75						
		Kamp, J. F.....	Car fare.....	5 00			5 00			
		Strong, Carlisle & Turney } Buettnr & Co.....	Torch blow pipe..	5 00						
			Repaving.....	57 85	57 85					
		Cleveland Steam Boiler Works.....	Steel tank.....	20 00						
		Excelsior Iron Works.....	Forging.....	58 45					58 45	
		Gibson & Price.....	Lead.....	52 13	52 13					
		Hewitt, A. E. & Co.....	Blacksmithing....	15 33	9 55					
		Kingsley, M. W. Supt.....	Cash advanced....	353 14	97 50		46 85			
		Kingsley, M. W. Supt.....	Painting W. S. } P. H.....	166 05						
		McIntosh, Hunting- ton Co.....	Hardware	93 73						
		Riblet's Livery and Transfer Co.....	Use of horse and wagon.....	123 00		48 25				
		Solomonson Optical Co.....	Thermometer.....	3 00				3 00		
		Strong, Carlisle & Turney } Upson Walton Co.....	Hardware.....	23 89	3 00					
			Manila rope.....	1 14	1 14					
		Hempy, H. M. & Son.....	Plugs.....	4 80	4 80					
		Hewitt, A. E. & Co.....	Blacksmithing	21 47						
		Lake Erie Ice Co.....	Ice	7 32			7 32			
	McIntosh, Hunting- ton & Co.....	Manila rope.....	5 61	5 61						
	Monks, Peter.....	Car fare.....	5 00			5 00				
	Peck, W. H. H. & Co.....	Packing.....	9 43							
	Strong, Carlisle & Turney } Valves.....		31 00							

SUBDIVISION OF WATER WORKS.—Continued.

Fairmount Pump Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New B-iler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works, Bonds.
			4 67								27 73		
			2 12						6 00				
			4 96								129 39		
											71 78		
			2 75										
				5 00									
											20 00		
											5 78		
						208 79					166 05		
			10 00	64 75							98 73		
												20 89	
			21 47										
			9 48										
											31 00		

SUBDIVISION OF WATER WORKS—Continued.

Equipment Pumping Station Repairs.	Equipment Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
	37 50	30 00	235 68	113 84							243 37		
											108 66		
			34 65								1 75		
											2 22		
											8 63		
											101 47		
											40 76		
											18 75		

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dep't.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repairs.	Fairmount Pumping Station Expense.
December.	Wood Bros.....	Sewer Tile.....	\$ 89	\$ 89						
	Worthington, Geo.....	Lead.....	109 30	109 30						
	Builders Supply Co.....	Sewer Curve.....	88	88						
	Campbell, Geo.....	Car Fare.....	5 00				5 00			
	Clev. Print. & Pub. Co.....	Sp'cific't'n Bl'ks	20 25			20 25				
	Finucan, P. F.....	Car Fare.....	5 00				5 00			
	Humbert, Wm.....	Slate Roof.....	19 00							
	Harbaugh, A. G.....	Cylinder Oil.....	21 42					21 42		
	Hewitt, E. A. & Co.....	Iron Castings.....	64 54		5 60					
	Lord, Bowler & Co.....	Forging.....	2 89							
	Manning, Thos. & Co.....	Air Chamber.....	57 97	55 00			2 97			
	Marquardt, Carl.....	Car Fare.....	5 00				5 00			
	River St. Machine Co.....	Machine Work.....	160 21							
	Sheppard, J. J.....	Fire Clay.....	98 00							
	Strong, Carlisle & T.....	Pipe Washers, etc	11 30							
	Walsh, Upstill & Co.....	Coal.....	73 23					73 23		
	Wheeler, G. W.....	Blacksmithing.....	6 40		6 40					
	Worthington, Geo.....	Lead.....	268 07	268 07						
	Armstrong, W. W. Treas	Interest.....	2,000 00							
	Excelsior Iron Wks.....	Repairing Boilers	207 38						207 38	
	Lake Shore F'ndry Co	Pipe.....	10,336 79	10,336 79						
	Barkwell, C. G.....	Brick.....	6 66	6 66						
	Borden & Selleck Co.....	Repairing Scale..	13 70	13 70						
	Clev. Steam Boiler Wks.	Repairing Boilers	492 43						492 43	
	Cleveland Supply Co.....	Jute Packing.....	18 99	18 99						
	Gibson & Price.....	Lead.....	81 51	81 51						
	Lake Erie Ice Co.....	Ice.....	3 06							3 06
	Lustkemeyer, H. W. } & Son	Pick Handles.....	2 25	2 25						
	Purdy & McNeil.....	Lumber.....	12 75	12 75						
	Rhodes, Beidler Co.....	Coal.....	4 00	4 00						
	Strong, Carlisle & T.....	Globe Valves, etc	108 87							
	Wensink, Theo.....	Car Fare.....	5 00				5 00			

SUBDIVISION OF WATER WORKS—Continued.

Fairmount Pumping Station Repairs.	Fairmount Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
											19 00		
											58 94		
											2 89		
											160 21		
											98 00		
											11 30		
							2,000 00						
											108 87		

VOUCHER REGISTER OF ACCOUNTS PAYABLE,

Month.	Whose Favor.	For What Purchased.	Total Amount.	Pipe Extension.	General Repairs.	Expense Sup't Dept.	General Con-tingent Expense.	Old River Pumping Station Expense.	Old River Pumping Station Repair.	Wilmington Pumping Station Expense.
December.	Worthington, Geo. Co.	Lead.....	144 07	\$ 144 07	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
	Borden & Selleck Co...	Scales.....	40 00							
	Cleveland Steam Boiler Works.....	} Repairing Boilers	490 24						490 24	
	Cleveland Telephone Co		{ Telephone Services... }	48 00		7 50	17 50		18 00		5 00
	Excelsior Iron Works	Repairing Boilers	217 40						217 40	
	Farnans Brass Works	Corporation Cocks	155 75							
	Hewitt, E. A. & Co.....	Blacksmithing...	11 78							
	Kelley Island Lime Co.	Lime.....	9 60							
	Leader Printing & Pub. Co.....	} Advertising.....	6 12				6 12			
	McIntosh, Hunting-ton Co.....		{ Pipe and Valves.	81 97						
	Murphy, C.....	Car Fare.....	5 00				5 00			
	Plain Dealer Pub. Co...	Advertising.....	13 00				13 00			
	Purdy & McNeill.....	Lumber.....	23 41							
	Slater, D. F.....	Teaming.....	25 75	25 75						
	Standard Oil Co.....	Oil.....	3 77					3 77		
	Standard Pipe Covering Co.....	} Pipe Covering....	123 06							
	Wagner, Henry.....		{ Car Fare	5 00				5 00		
	Armstrong, W. W., Treasurer.....	} Pay Rolls.....	7,712 41	3,082 07	276 30	1,777 55		1,838 43		197 50
	Barkwill, C. G.....		{ Brick.....	26 67						
	City Store Room.....	Supplies.....	27 82				27 82			
	Cook, Henry Co.....	} Services at W. S. P. H. }	100 00					100 00		
	Gleason, John.....		{ Car Fare.....	5 00				5 00		
	Kingsley, M. W., Sup't	Cash Advanced..	311 42	86 50						
	Lake Shore Foundry ...	Pipe.....	12,550 93	12,550 93						
	MaAuley, Mary.....	Laundry Work ..	9 25				9 25			
	McGreal, M.....	Teaming.....	29 50	29 50						
	Monks, Mrs.....	Teaming.....	11 00	11 00						
	Nolze, F. A.....	Car Fare.....	5 00				5 00			
	Osborne Seager Co.....	Coal.....	326 37					326 37		
	Rhodes Beidler Co.....	Coal.....	5 50	5 50						
	Worthington, Henry R	} Meters for W. S. P. S. }	247 50							
			{ Total.....	\$ 775,312 79	219,582 45	8,248 00	38,711 91	1,734 74	85,004 40	8,664 74

WATER WORKS.

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SUBDIVISION OF WATER WORKS.—Continued.

Payment Pump Repairs.	Reservoir Expense.	High Service Reservoir Expense.	Water Meter Account.	Ferrule and Tapping Account.	Sundry Creditors.	Water Rents Returned.	Interest Account.	New Boiler House and Boilers.	Crib Repairs.	Track Scales and Track.	Miscellaneous Construction.	New Worthington Engine.	Water Works Bonds.
											40 00		
				155 75							11 78		
											9 60		
											81 97		
											23 41		
											123 06		
	37 50	30 00	275 81	65 00							132 25		
			26 67										
						224 92							
											247 50		
2,052 30	2,482 57		7,178 80	15,096 22	11,272 00	1,574 54	951 50 00	15,350 04	2,961 00	2,028 38	8,982 12	43,000 00	200,000 00

**RECAPITULATION OF VOUCHER REGISTER BILLS
PAYABLE FOR THE YEAR ENDING
DECEMBER 31, 1893.**

For Pipe Extension.....	\$219,582 45
" General Repairs.....	8,248 00
" Superintendent Department Expense.....	38,711 91
" General Contingent Expense.....	1,734 74
" Old River Pumping Station Expense.....	85,004 40
" " " " " Repairs.....	8,664 74
" Fairmount " " Expense.....	5,775 49
" " " " Repairs.....	483 19
" " Reservoir Expense.....	2,052 20
" High Service " "	2,462 57
" Water Meter Account.....	7,178 80
" Ferrules and Tapping Account.....	15,096 22
" Sundry Creditors Account.....	11,272 00
" Water Rents Returned.....	1,574 54
" Interest Account.....	95,150 00
" Boiler and New Boiler House.....	15,350 04
" Crib Repairs.....	2,961 00
" Track and New Track Scales.....	2,028 38
" Miscellaneous Construction.....	8,962 12
" New Worthington Engine.....	43,000 00
" Water Works Bonds.....	200,000 00
Total.....	<u>\$775,312 79</u>

Department of Public Works.

(STREETS.)

Report of Superintendent.

Report of the Superintendent of Streets.

CLEVELAND, OHIO, April 4, 1894.

HON. JOHN H. FARLEY,
Director of Public Works.

Sir:—I have the honor to herewith submit the annual report of the street department for 1893.

Referring to the large expenditures in certain localities I have to say that they are in the nature of permanent improvements and will in my judgment prove to be an ultimate economy.

Respectfully,

EDWIN HART,
Sup't of Streets.

TABLE No. 1.
 SHOWING CHARACTER AND COST OF ALL REPAIRS TO STREETS UNDER STREET SUBDIVISION, DEPARTMENT OF PUBLIC WORKS, FOR THE YEAR ENDING DECEMBER 31, 1893.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Aaron	\$	70	\$		\$		\$ 129 75	\$ 130 45
Abbey.....		8 40	3 13	6 07		11 50	31 00	60 10
Abram		4 20					19 25	23 45
Academy		2 80						2 80
Ackley avenue.....		21 70	3 74	111 87			325 53	462 84
Actus.....			7 37					7 37
Alabama.....		17 50			20 00		67 37	104 87
Alanson		70		16 75				17 45
Alfred.....			3 13					3 13
Allen		1 40	3 00	8 13				12 53
Alley in rear Abbey.....							5 00	5 00
Alley on Birch near Ravine.....							5 00	5 00
Alley on Burton.....							3 75	3 75
Alley on Carroll.....							3 00	3 00
Alleys on East Side.....							518 00	518 00

TABLE No. 1—Continued.

Streets.	Peddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Mounding and Filling on Unpaved Streets.	Total.
Alley on Ionia south of Clark.....	\$.....	\$.....	\$.....	\$.....	\$ 21 88	\$.....	\$.....	\$ 21 88
Alley rear Kinsman School.....	77 00	77 00
Alley off Lorain west of Taylor.....	8 37	.....	.....	10 00	10 00
Alley rear 175 Ontario.....	8 37
Alley between Martin and Douze.....
Alley between Pearl and Soranton.....	10 50	10 50
Alley off Orange near Case.....	5 62	.....	.....	5 62
Alley on Selden south of Clark.....	12 75	.....	.....	12 75
Alleys on South Side.....	51 25	51 25
Alleys on West Side.....	189 50	189 50
Alley on Willow street Hill.....	3 00	3 00
Alley between Yeakel and Steinway.....	8 00	.....	.....	8 00
Allman court.....	3 15	3 15
Alum.....	70	.....	.....	.....	.....	275 00	275 70
Amesbury avenue.....	140 00	.....	.....	.....	.....	.....	1 40
Ansel avenue.....	9 80	66 25	.....	.....	.....	.....	238 05
Anson.....	217 00	120 00

TABLE NO. 1—Continued.

Streets.	Peddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Culvert Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Arab.....	\$..				\$..	\$ 10 00	\$ 10 00	\$ 10 00
Arkansas.....								
Arlington.....		1 40					111 25	112 65
Armitage.....							70 50	70 50
Armory.....								
Arthur.....								
Ash.....			30 00	—			35 75	65 75
Ashland avenue.....		4 20						4 20
Ashton.....			7 00					7 00
Aspen.....		70					16 46	17 16
Astor avenue.....		1 40					40 50	41 90
Asylum.....							98 00	98 00
Atlantic.....		31 50					530 00	561 50
Auburn.....		6 30					82 50	88 80
Austin alley.....		70						70
Avon alley.....		70					8 00	8 70
Avery.....							11 66	11 66

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repair and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters, and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Artell avenue.....	\$.....	\$ 1 40	\$.....	\$.....	\$.....	\$.....	\$ 24 00	\$ 25 40
" B".....	29 00	.....	.....	35 00	64 00
Baden avenue.....	1 40	.....	.....	.....	.....	.....	1 40
Bailey.....	29 70	.....	18 88	.....	52 50	100 88
Baker.....	11 06	11 06
Ballou.....	2 10	.....	.....	.....	.....	73 35	75 45
Bank.....	14 00	.....	18 55	.....	64 75	.....	97 30
Barber avenue.....	3 25	.....	.....	84 25	87 50
Barkwill.....	67 87	.....	.....	.....	197 25	265 12
Bayne.....	25 62	25 62
Beck.....	1 40	.....	.....	.....	.....	.....	1 40
Becker avenue.....	9 80	.....	.....	.....	.....	100 00	109 80
Becker court.....	12 38	12 38
Beckwith avenue.....	12 16	.....	56 50	.....	.....	36 00	104 66
Beech.....	70	5 38	.....	.....	.....	4 68	10 71
Bedford road.....	13 50	.....	.....	.....	.....	13 50
Beoher.....	2 10	.....	.....	.....	.....	66 00	68 10

TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosstalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Balden.....	\$.....	\$ 4 20	\$.....	\$.....	\$.....	\$.....	\$ 239 55	\$ 243 75
Ball avenue.....	70	.....	.....	.....	.....	51 50	52 20
Belmont.....	1 40	.....	.....	.....	.....	110 75	112 15
Bentley.....	21 75	21 75
Berg.....	1 40	.....	.....	.....	.....	.....	1 40
Berg street alley.....	81 25	81 25
Berlin.....	15 37	.....	.....	15 37
Bessemer avenue.....	10 00	.....	.....	.....	.....	.....	10 00
Bethel Relief Association (Foremen).....	485 00	156 50	641 50
Beyerle.....	9 00	.....	.....	.....	48 50	57 50
Birch.....	3 50	.....	.....	.....	.....	.....	177 25	180 75
Bismarck Ave.....	4 38	4 38
Bissell.....	5 00	.....	.....	.....	13 50	18 50
Blanche.....	13 00	.....	.....	.....	.....	13 00
Blair.....	10 44	10 44
Bliss avenue.....	1 40	64 25	65 65
Bolivar.....	3 00	7 00	30 00	11 00	51 00

STREETS.

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TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Milling on Unpaved Streets.	Total.
	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
Bright.....				5 62			2 75	8 37
Brighton.....		2 80					88 50	91 30
Broadway.....	10 75	107 10		156 63	18 63	210 70	580 87	1,066 68
Brook.....			24 75					24 75
Brooker Ave.....		1 40					37 75	39 15
Brookfield.....		35 00						35 00
Brooklyn.....		2 10						89 55
Brough.....								49 50
Brown.....								38 00
Brownell.....		9 10		26 30				102 90
Brunswick.....		2 80						64 22
Buckeys.....		70	3 13					3 83
Buckley.....		70	165 25					178 95
Buell.....		70						31 33
Buhrer.....		2 10	1 68					23 28
Burton.....		14 00	56 25	4 50				85 25
Burwell.....		5 60	9 50				34 50	49 60

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Leaving and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
California Alley.....							22 12	22 12
Calvert.....		1 40					23 12	24 52
Camden.....							24 50	24 50
Canal.....	3 00	12 60	13 25	51 25		63 50	182 50	326 10
Canfield.....		1 40	7 25				85 00	93 65
Canton.....			67 05					67 05
Carr.....		2 10	25 50					27 60
Carry.....							34 50	34 50
Carroll.....		6 50	5 60				20 50	32 60
Carter Court.....							5 00	5 00
Case Ave.....	2 00	54 60	3 50	5 27	9 12	11 00	138 00	223 49
Case Pl.....						4 75		4 75
Castle Ave.....			14 00				17 00	31 00
Catch Basins (opening).....						39 50	30 00	69 50
Catawba.....		1 40					4 25	5 65
Catherine.....			11 50					11 50
Cedar Ave.....		53 80	10 75	47 20	27 75		148 75	288 35

TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Cedar Avenue at Blue Rock Springs.....	\$.....	\$.....	\$ 47 00	\$ 81 29	\$ 25 50	\$.....	\$ 77 25	\$ 231 04
Cemetery.....							30 75	30 75
Center.....	3 00	14 00		75 60				92 60
Central Ave.....	3 09		75 10	120 95		37 00	228 00	462 14
Central Market.....		2 80			5 37			8 17
Central Viaduct.....		3 50			8 56	448 00		458 06
Central Way.....	51 00					2 00		53 00
Chamberlain.....					10 37			10 37
Chambers.....		14 50						14 50
Champs.....							42 50	42 50
Champlain.....		12 60		9 50				22 10
Chapel.....							30 00	30 00
Charles.....							40 00	40 00
Chatham.....		2 80	10 74		33 62		48 75	95 91
Chatham Alley.....							1 50	1 50
Cher Y.....			6 25				41 50	47 75
Cherry Alley.....		70					53 75	54 45

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 1—Continued.

Streets.	Padding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding, and Filling on Unpaved Streets.	Total.
Cheshire.....	\$ 1 40						\$ 33 18	\$ 34 58
Chester.....							46 25	46 25
Chestnut.....	4 20						4 37	8 57
China.....	2 10	2 68					14 25	19 03
Church.....							157 63	157 63
City Hall.....			31 50					31 50
City Hall Yard.....							199 67	199 67
City Stairs.....							588 00	588 00
City Yard (W. S.).....							254 00	254 00
Clasasen.....							41 25	41 25
Clara.....							11 06	11 06
Claramont.....	70							70
Clarence Lane.....							10 50	10 50
Clark Avenue.....	89 20		58 00	39 55			432 75	619 50
Cleve St.....			8 50				11 06	19 56
Cliff.....	70		15 12				15 10	30 92
Clifton.....	70				9 62		74 00	84 32

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Clinton.....	5 38	9 80	5 38					20 56
Clinton Park.....		70			3 70			4 40
Cloud.....			7 50					7 50
Clover.....							14 75	14 75
Colfax.....			20 00	88 77			294 48	403 25
Colgate.....			5 38				48 35	53 73
College.....			25 00				42 00	67 00
Colorado.....			25 25				21 10	46 35
Columbus.....		31 70	14 00		17 44	4 75	65 00	219 92
Commodore.....				16 56				16 56
Commonwealth Ave.....	1 40	1 40						2 80
Commercial.....	1 50	15 40		14 00				30 90
Compton.....		1 00						1 00
Concord.....		70	32 25				22 00	54 95
Congress.....			3 63	64 50	26 50		40 00	134 63
Conrad.....		2 10					27 50	29 60
Cook.....		2 80					59 05	61 85

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-laying Curbwalks.	Cleaning Paved Streets and Alleys.	Cleaning, Roughing and Filling on Unpaved Streets.	Total.
Cooper.....							\$ 122 20	\$ 122 20
Cork.....							23 00	23 00
Corlett Place.....			1 00					1 00
Cornelia.....							35 00	35 00
Cornell.....	16 13	10 50						26 63
Corwin Ave.....			6 00				38 00	44 00
Cottage.....					3 50		39 75	43 25
Courtland.....		70	8 65				78 00	87 35
Covington.....			8 00					8 00
Crawford Road.....		9 80	15 75		11 98		24 50	61 98
Creighton.....							17 25	17 25
Crosby.....							30 25	30 25
Cross.....		10 50	32 25				63 50	106 25
Cross Walks.....						654 00	3 00	657 00
Cruton.....	21 56	23 10	54 00		23 00		312 13	410 79
Cumberland.....								23 00
Curtis Ave.....							45 00	45 00

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Czar.....	\$.....	\$.....	\$ 20 50	\$.....	\$.....	\$.....	\$ 66 25	\$ 86 75
Dakota.....	3 00	3 00
Dana.....	3 50	.....	.....	.....	68 25	71 75
Danforth.....	2 10	.....	.....	.....	.....	5 50	7 60
Dare.....	5 60	10 75	.....	.....	.....	141 50	157 85
Davenport.....	8 40	42 13	.....	24 01	.....	110 50	185 04
Davies.....	7 70	.....	1 50	.....	.....	73 50	82 70
Davies street bridge.....	6 75	.....	6 75
Davies street yard.....	47 75	106 50	30 5	.....	40 75	225 75
Davis.....	9 50	.....	.....	.....	32 50	9 50
Davis court.....	1 40	.....	.....	.....	.....	.....	33 90
Dayton.....	1 40	.....	.....	11 25	.....	26 00	38 65
Dean alley.....	16 25	16 25
Deans alley.....	10 00	.....	.....	.....	.....	10 00
Decatur alley.....	4 50	.....	4 50
Leckand.....	70	.....	.....	.....	.....	.....	70

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 1—Continued.

Streets.	puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drain, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Decker avenue.....			18 00					18 00
Delaware.....		1 40					68 12	69 52
Dellenbaugh avenue.....							35 00	35 00
Dent.....							11 07	11 07
Dereum.....					5 00			5 00
Detroit.....		25 20	41 25	96 23	5 00	20 75	13 50	201 93
Detroit court.....		4 20					75 00	79 20
Devoy.....							4 95	4 95
Diamond alley.....				60 00		17 50	7 25	84 75
Dibble avenue.....							15 50	17 60
Dexter place.....		2 10					16 78	16 78
Dickerman.....							42 88	42 88
Diebolt alley.....						4 50		4 50
Diemer.....							45 00	45 00
Dike.....							28 32	28 32
Dille.....		70	7 00				47 75	55 45
Division.....	2 40		103 50	53 00		20 00	361 52	540 82

TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sowers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Division street pumping station.....	\$.....	\$.....	\$.....	\$ 16 75	\$.....	\$.....	\$.....	\$ 16 75
Doan	9 80	94 00	.....	27 50	.....	272 50	403 80
Dodge	15 40	.....	.....	.....	.....	.....	15 40
Doloff.....	70	70 50	.....	.....	.....	617 58	688 78
Dorcheste avenue	70	.....	4 19	.....	.....	.....	4 89
Douglas.....	83 50	83 50
Douse.....	64 75	64 75
Dover.....	8 75	8 75
Brake avenue	13 50	.....	.....	.....	.....	13 50
Duane.....	14 00	.....	147 50	161 50
Dudley	14 06	14 06
Duke.....	18 87	18 87
Dunham avenue.....	14 70	.....	.....	63 41	.....	886 05	914 16
Eagle.....	6 30	.....	.....	.....	.....	.....	6 30
East Clark avenue.....	123 50	.....	.....	.....	.....	410 00
East End avenue.....	70	.....	.....	.....	.....	.....	70
East Madison avenue.....	36 40	3 75	54 02	4 12	.....	119 50	217 79

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
East Prospect.....	\$	6 30		27 17				\$ 33 47
East River.....		6 30		24 50				30 80
Eddy.....			6 25					6 25
Edgar.....		1 40					28 50	30 90
Edgewood avenue.....		6 90	34 60					41 50
Edgewood place.....		1 60						1 60
Elna.....							11 07	11 07
Edson alley.....							12 00	12 00
Edwards avenue.....		2 10	17 50					19 60
Eliza.....		1 40					43 08	44 48
Elm.....		2 10						76 60
Elmo.....		1 40	15 75	75 50				101 75
Elinwood.....			73 75				84 80	101 75
Elton.....			9 50		2 00		18 00	91 75
Emmett.....			3 50				15 14	26 94
Empress.....							72 25	75 75
Engel avenue.....							5 00	5 00
							9 75	9 75

STREETS.

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TABLE No. 1--Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosstalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Euzen avenue.....	\$ 1 00							\$ 1 00
Erie.....	5 50	9 10	13 50	340 95	10 00	169 00	54 00	602 05
Erin avenue.....			17 25				2 69	19 94
Facild avenue.....		113 80		288 08		1,079 00	402 50	1,893 38
Everett.....							118 75	118 75
Evergreen.....			1 00					1 00
Factory.....		2 80					24 50	27 30
Fairfield.....		2 10	32 87				67 35	102 32
Fairmount avenue.....		13 30		4 19				17 49
Farnham alley.....		1 40						1 40
Fayette.....					3 50			3 50
Fifth.....							43 00	43 00
Filmore.....							8 25	8 25
Finn.....			17 75		3 50		146 50	164 75
Fir.....							38 00	38 00
First avenue.....		7 00					46 06	53 06
Fleet.....			19 38					19 38

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Florence.....		70					28 32	28 02
Floyd.....			3 73					3 73
Foljambe.....							9 06	9 06
Force.....			11 00					11 00
Ford.....							21 50	21 50
Forest.....		22 40			4 37	11 00	106 50	144 27
Forman.....		70					9 50	10 20
Fountain.....			36 75				43 75	80 50
Fourth.....		7 00	25 50		6 62		51 25	90 37
Fowler.....		1 40	7 00		5 00		35 85	49 25
Franks.....							14 75	14 75
Frank.....							98 56	98 56
Frankfort.....	2 00	4 90		24 00		13 75		44 65
Franklin avenue.....		10 50	114 50	15 63		18 50	20 50	179 63
Franklin alley.....		1 40	60 30		6 50		11 35	79 55
Franklin court.....							14 62	14 62
Franklin circle.....							43 00	43 00

STREETS.

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TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paying Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	
Fras avenue.....		3.....					63 50	63 50
Freeman.....		2 80	3 12				8 50	14 42
Fre蒙特.....			13 00				9 50	22 50
French.....				13 00				13 00
Front.....		6 45	30 00	4 87		9 50	3 85	54 67
Fruit.....							11 00	11 00
Fulton.....		4 20	2 68	17 20				24 08
Fulton alley.....								10 30
(Hall).....								17 25
(Hauge).....		19 60						84 50
(Ives) avenue.....		7 00						7 00
German.....		70						70
Gibbs.....							10 45	10 45
Giddings avenue.....		21 70					443 76	465 46
Giddings brook.....	5 12							5 12
Gilbert.....			7 50				133 00	140 50
Glass avenue.....		18 95	8 75				48 18	75 88

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosstalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding, and Filling on Unpaved Streets.	Total.
Glazier.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 36 50	\$ 36 50
Glendale avenue.....							41 75	41 75
Glen Park place.....	2 19			4 19				6 38
Glenroy.....							4 95	4 95
Goethe.....							75 50	75 50
Goldsmith court.....							9 43	9 43
Gordon avenue.....	8 40		70 00				208 00	240 90
Grand avenue.....		23 20	11 77		4 50		254 70	289 67
Granger.....		70						70
Grant.....		8 40					82 00	90 40
Gray.....							4 50	4 50
Green.....		1 40			27 25		23 50	52 15
Greenwood.....	1 00	4 20					107 00	112 20
Griswold.....		2 10						48 10
Grove lane.....							55 00	55 00
Guernsey.....							86 25	86 25
Gundry alley.....							1 00	1 00

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Harcourt Place.....							17 00	17 00
Harbor.....		10 50	35 87				363 75	410 12
Harkness avenue.....		9 80						9 80
Hartlett.....							59 45	59 45
Harrison.....		1 40	19 75				80 00	101 15
Harper.....							62 50	62 50
Harriet avenue.....							10 09	10 09
Harrison.....		6 30						6 30
Hartford.....			27 00				3 12	30 12
Harvard.....			35 75				59 75	95 50
Hawthorne avenue.....		70					13 87	14 57
Hayward.....		2 80					11 56	14 36
Haymarket.....					5 37			207 12
Hauling C. W. Paving Stone.....				498 00	283 38			781 38
Hazen.....							11 50	11 50
Hector.....		70	9 50				8 00	18 20
Hecker.....							37 00	37 00

STREETS.

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TABLE NO. 1—Continued.

Street.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paying Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Henry	\$ 1 40	\$	\$	\$	\$	\$	\$ 30 00	\$ 31 40
Herald	50 40	28 75	133 00	17 25	862 75	15 00	1,092 15	
Herald alley						3 12	3 12	
Hermann		29 60				13 75	43 35	
Herschel	2 80						2 80	
Hickory	1 40	6 25	12 20				19 85	
Hickox	4 90	15 00					40 65	
Hicks						20 75	20 75	
Hicks alley						1 00	1 00	
Higgins	1 40					321 33	322 73	
High			4 19				4 19	
Hill	7 00	9 00	23 00			50 00	89 00	
Hillman avenue						28 00	28 00	
Hinde					12 75		12 75	
Hitchcock		21 39			12 75		34 14	
Hoadley	2 10					143 90	146 00	
Hodge avenue	15 40					110 50	125 90	

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Hollister.....	\$.....	\$.....	\$.....	\$.....	\$ 5 00	\$.....	\$ 45 15	\$ 50 15
Holnden avenue.....		5 00					4 25	9 85
Holt.....							2 00	2 00
Holton.....			15 50		8 50		148 00	172 00
Holyoke place.....		4 90					36 00	40 90
Homer.....							36 00	36 00
Homewood.....			10 75				10 75	21 50
Horace.....							5 25	5 25
Hope.....							16 00	16 00
Hosmer.....			2 13					2 13
Hough avenue.....		2 80		32 75			138 50	174 05
Hough place.....		2 10						2 10
House.....							13 75	13 75
Howard.....			6 00		8 00		23 25	37 25
Howe.....	10 75	70				3 00		14 45
Howlett.....		55 00					34 85	89 85
Hoyt avenue.....		70	22 90	27 12			414 75	465 37

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rolling and Filling on Unpaved Streets.	Total.
Huck.....			18 25				9 50	27 75
Humboldt.....		3 50					138 75	142 25
Hugo.....					16 25			16 25
Hurlburt.....							45 00	45 00
Hunter.....		2 10					12 05	14 75
Hunting			2 75					2 75
Huntington		3 50	12 50	11 75				27 75
Hurd.....		4 20						4 20
Huron		20 30				25 00		45 30
Ida.....		2 80						2 80
Independence.....		1 40	61 62		27 37		380 25	480 64
Inverness.....							81 25	81 25
Iona.....		2 80	25 20				46 50	74 50
Iris alley.....		70				8 00		8 70
Irving.....			13 50				175 50	189 00
Irvington.....		2 10						2 10
Isabella.....		2 10	13 75					15 85

STREETS.

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TABLE No. 1--Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Keene Al.....	\$.....	\$.....	5 37	\$.....	\$.....	\$.....	10 00	\$ 15 37
Kelly.....			1 40		22 38		26 00	49 78
Kenilworth.....		3 50					127 65	131 15
Kenmore		1 40						1 40
Kennard		17 50				49 50		67 00
Kennedy.....					26 50			26 50
Kentucky		3 50	27 82				45 25	76 57
Kent.....							21 00	21 00
Kenwood.....							18 88	18 88
Kenyon.....			8 55					8 55
Kimmel.....			1 00					1 00
Kilfoyl.....							52 06	52 06
Kindswater.....		1 40					22 12	23 52
King.....							22 12	22 12
Kingsbury Run Viad.....		2 10				25 25		27 35
Kinkel							2 13	2 13
Kinsman.....		50 40		10 87	5 00		106 00	172 27

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paying Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Kirtland.....	\$.....	\$ 6 30		\$.....	\$.....	\$.....	\$ 89 27	95 57
Krauss Alley.....							1 00	1 00
Lake.....		42 70				23 00	186 50	252 20
Laurel.....		4 80	7 00				40 50	52 50
Lawn.....			3 25				51 24	54 49
Lawrence.....			3 00				210 00	237 62
Lederer.....			5 38		24 62			5 38
Lee Court.....							9 50	9 50
Lees.....							1 10	1 10
Lena Avenue.....		1 40					23 18	24 58
Lenox.....							8 75	8 75
Leonard.....		1 40		12 00				13 40
Lesing.....								12 25
Lester.....			12 25					7 25
Lexington Avenue.....		5 60					94 55	100 15
Lewis Avenue.....		70					120 00	120 70
Leyden.....			23 50					23 50

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Re-paving and Filling on Unpaved Streets.	Total.
Libera!.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 19 25	19 25
Liberty.....	5 37	4 20	5 38				76 00	90 95
Light.....	1 40						11 06	12 46
Lilac.....			7 00					7 00
Lincoln avenue.....	4 90	4 90	18 00		8 38			31 28
Linden.....	1 40						146 00	147 40
Lindsey.....								
Lisbon.....							41 00	41 00
Literary.....	2 80		41 90	8 13		4 50	98 25	155 58
Little.....	1 40						5 00	6 40
Lockhart.....								
Lockyear avenue.....							36 75	36 75
Lodge avenue.....	2 10						86 44	88 54
Logan court.....	70							70
Long.....	4 90			4 19				9 09
Longwood avenue.....							27 75	27 75
Lorain.....	33 60		32 50	145 30	9 75	380 25	8 50	559 90

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Impaved Streets.	Total.
Louis.....	\$.....	\$ 1 40	\$ 2 68	\$.....	\$.....	\$.....	\$ 122 50	\$ 126 58
Lucerne.....							20 00	20 00
Lussenden avenue.....	1 09	1 40					17 00	19 49
Luther.....		3 50					33 12	36 62
Lyman.....		1 40					133 37	134 77
Lyon.....							22 12	22 12
Mabel.....							1 50	1 50
Madison avenue.....								
Magnet.....							15 75	15 75
Mahoning.....							8 75	8 75
Main.....		4 90		16 40		3 00	4 25	28 55
Malden.....							166 63	166 63
Mandrake.....							1 25	1 25
Maple.....		1 40					64 00	65 40
Maplewood.....			5 00					5 00
Marble.....								
Marceline avenue.....			20 50				18 63	39 13

STREETS.

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TABLE No. 1—Continued.

Streets.	Building Streets and Flushing Towers.	Mason Repairs and Cleaning, Catch Basins.	Carpenter Work on Box Gutters, Drains, &c.	Paving Gutters and Flaying Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Mary		4 90						4 90
Marine Hospital			23 01					23 00
Marion		2 80					60 00	62 80
Mariposa place							9 12	9 12
Market		4 20			15 25			19 45
Marquardt			13 50				82 08	95 58
Martin					4 00		59 00	63 00
Marvin avenue		7 00					45 00	52 00
Mary							15 00	15 00
Mason		3 50					40 00	43 50
Mather							21 00	21 00
Mayflower		3 50					11 00	14 50
McBride		14 00	17 37				110 00	141 37
McConnell			3 75					3 75
McHenry		2 10					322 25	324 35
McJann		3 50	13 00				32 00	48 50
Mead avenue					5 31		64 50	69 81

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Newers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total
Meadow.....	\$	\$ 2 80	\$	\$	\$	\$	\$	2 80
Mechanic.....		5 60			12 75		10 85	29 20
Melrose.....							37 50	37 50
Melvin.....					16 25			16 25
Mentor avenue.....							33 50	33 50
Merchant avenue.....		4 20					50 50	63 70
Meridian.....		2 10						2 10
Merwin.....	13 00	13 30	14 50	81 00	6 25			128 05
Metts.....							4 50	4 50
Meyer avenue.....			16 25				65 55	81 80
Myers alley.....							70 50	70 50
Miami alley.....							6 00	6 00
Michigan.....		3 50		19 43		4 00		26 93
Middle.....	1 50			17 19				18 69
Miles avenue.....		3 50	4 60					8 10
Miles Park avenue.....			5 38					5 38
Milford avenue.....		3 50	38 50				43 25	43 25

STREETS.

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TABLE No. 1--Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Mill	\$.....	\$ 2 80	\$ 100 00	\$.....	\$.....	\$.....	\$ 185 00	\$ 287 80
Miller place.....	26 00	26 00
Milton	2 10	3 75	.....	.....	.....	17 75	23 60
Minnesota.....	22 12	22 12
Monroe.....	7 00	.....	.....	29 88	.....	99 00	135 88
Monumental square.....	24 70	.....	117 62	75 38	898 25	.....	1 103 95
Moore	7 50	.....	.....	.....	.....	7 50
Mulberry.....	4 20	.....	.....	.....	.....	183 60	137 80
Mumford.....	5 02	.....	.....	.....	13 00	18 02
Muirson.....	11 20	.....	.....	.....	.....	47 31	58 51
Myrtle	13 50	13 50
New	1 40	6 25	.....	.....	.....	37 74	45 30
Newark.....	4 50	4 50
Newell	8 07	.....	.....	.....	38 70	46 77
Newton.....	11 06	11 06
Nicola	37 50	37 50
Noble.....	70	.....	5 63	.....	.....	.....	6 33

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Nora	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 118 50	\$ 118 50
North East avenue.....	11 00	11 00
North Woodland	6 75	.....	.....	.....	.....	6 75
Norwich.....	6 75	.....	.....	.....	.....	6 75
Norwood avenue	3 50	35 00	.....	.....	.....	94 00	132 50
Noyes.....	1 40	15 00	.....	.....	.....	14 50	30 90
Nursery	4 50	.....	.....	.....	160 13	164 63
Oakdale.....	5 60	37 75	.....	3 00	.....	84 75	131 10
Ohio	11 25	6 62	.....	.....	17 87
Old River.....	11 90	.....	119 50	.....	5 00	415 50	551 90
Olive	70	.....	.....	.....	.....	41 50	42 20
Oliver	70	.....	.....	.....	.....	100 60	101 30
Ontario.....	38 50	.....	324 48	.....	243 324	.....	606 22
Orange	15 40	5 37	183 00	219 77
Orchard.....	5 37	5 37
Oregon.....	7 70	88 45
Orey	3 50	80 75	3 50

STREETS.

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TABLE No. 1—(continued).

Streets.	Pudding Sticks and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling Streets on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Orrville.....							12 25	12 25
Orwig.....					22 50		70 50	93 00
Osage.....			15 00					15 00
Osborn.....							48 00	48 00
Ottokar.....							11 50	11 50
Ottawa.....			4 75					4 75
Outhwaite avenue.....		2 80	6 75				56 78	66 33
Pacific.....		70						70
Paddock place.....			3 50					3 50
Pallister avenue.....							45 75	45 75
Park Place.....				13 25				13 25
Payne avenue.....		23 80		25 70			177 50	227 00
Pear.....		2 80					25 12	27 92
Pearl.....	1 50	100 00		181 43	5 50	419 00		707 43
Peck.....							35 50	35 50
Pelton alley.....							12 00	12 00
Pelton avenue.....		5 00	28 75				30 75	65 10

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding, and Filling on Unpaved Streets.	Total.
Penn					16 37		20 75	37 12
Pennsylvania avenue.....							45 00	45 00
Perkins avenue.....		2 80					38 25	41 05
Perkins court.....				6 00				6 00
Perceval.....							99 75	99 75
Perry.....		19 60		39 00			21 00	79 60
Permits puddled.....	2,683 36							2,683 36
Perun.....							33 50	33 50
Petrie.....		9 10	63 75		3 75		239 00	315 60
Petrie street bridge.....			265 50					265 50
Phelps.....		4 90					81 00	85 90
Pierce place.....							1 00	1 00
Pine.....			3 12				11 06	14 18
Pittsburgh.....		23 10		8 13			23 78	55 01
Pittsburgh street bridge.....		16 00	579 50				34 75	630 25
Platt.....		3 50	12 00					15 50
Pleasant.....					11 88		61 00	72 88

TABLE NO. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Plum			19 20				20 00	39 20
Plymouth court.....							18 87	18 87
Pollock.....		29 25	6 50				4 00	39 75
Poland.....			13 50					13 50
Poplar		70	6 50				6 00	13 20
Port.....							11 00	11 00
Portago.....		1 40	15 75				141 55	158 70
Portland		1 40					20 50	21 90
Prague.....		1 40					22 00	23 40
Prane		4 12	3 25				10 00	17 37
Pratt.....							1 50	1 50
Professor	7 00	6 30					31 25	44 55
Prospect.....		13 30		38 60		48 00		99 90
Prosser							22 13	22 13
Purdy							20 00	20 00
Putnam.....		5 60					42 00	47 60
Queen.....							3 50	3 50

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins, Drains, &c.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Quimby	\$	5 60			10 00		8 25	23 85
Quincy.....		103 95	30 10	54 13	18 10		989 45	1,195 73
Randall.....		2 10					20 75	22 85
Randolph.....			16 50				91 63	108 13
Ranney avenue.....		2 80					68 25	71 05
Ravine		70			2 68		59 37	62 75
Rawlings avenue.....			60 75		5 25		112 12	178 12
Redell.....								
Reservoir.....		2 10	6 25				32 50	40 85
Regent			3 00					3 00
Removing street monuments.....						7 25		7 25
Rhodes avenue.....		2 90	62 50		20 50		101 85	187 65
Richland avenue.....		2 10						2 10
Ridge avenue		6 25	22 75				349 80	378 80
River.....		2 10				18 00		20 10
Rocket.....		4 20					82 50	86 70
Rockford.....							22 13	22 13

STREETS.

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TABLE No. 1—Continued.

Streets.	Puddling Street and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Rockland.....	\$	\$	\$	\$	\$	\$	\$	17 75
Rockwell.....	1 50	7 00	2 75	46 75		13 75	6 75	75 75
Root.....							178 00	178 00
Rosedale avenue.....							36 94	36 94
Ross.....		70					18 75	19 45
Rosier.....							41 00	41 00
Rouse.....							11 00	11 00
Rowley.....		1 40	17 75				106 25	125 40
Ruggles.....			10 50					10 50
Ruskin.....		70					41 50	42 20
Russell avenue.....		4 80	15 75	13 94			135 00	169 59
Russia.....		70	29 37					30 07
Ruth.....	3 00						9 44	12 44
Rutland.....								
St. Paul.....		5 60						5 60
St. Clair.....	1 69	93 80		185 22		55 50	356 57	692 78
Sackett.....		9 75	17 75		38 75		285 57	346 82

TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$	\$	\$	\$	\$	\$	\$	\$
Sago.....							11 06	11 06
Salem.....							2 75	2 75
Sunford.....							54 75	54 75
Sawell.....		4 20	10 00				52 25	66 45
Sawyer.....							16 50	16 50
Schaeffer.....							49 00	49 00
Schiller.....			1 00					1 00
Scott.....		4 10					33 00	37 10
Seovill avenue.....		28 70		44 25			37 25	110 20
Scranton avenue.....	32 50	44 80	27 00	25 00	18 45		407 75	555 50
Second avenue.....		2 80					46 10	48 90
Seelye avenue.....		5 00					92 00	97 00
Selden avenue.....			17 50			6 00	240 38	263 88
Seneca.....	3 00	53 90	4 50	197 00	71 10	64 45	228 25	622 20
Seneca street yard under Viaduct breaking stone.....						248 67	268 66	517 33
Seyster alley.....						4 50		4 50
Neymour avenue.....							6 00	6 00

STREETS.

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TABLE NO. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning (Catch Basins,	Carpenter Labor on Box Gutters, Drains, &c.	Paving (Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Sheridan.....	\$.....	\$.....	4 50	\$.....	\$.....	\$.....	\$.....	4 50
Sheriff.....		16 90		49 20		38 88		104 88
Sherman.....							17 25	17 25
Sherbrooke.....							11 06	11 06
Shirley.....			2 50					2 50
Shipherd.....		3 50					21 00	24 50
Short.....							10 00	10 00
Sinn.....			3 75		3 75		26 00	33 50
Sibley.....		3 50		6 03			77 25	87 08
Sixth avenue.....		2 80					82 44	35 24
Sked.....							20 00	20 00
Skinner avenue.....							25 75	25 75
Slater avenue.....		4 20					17 21	21 41
Smith.....							284 00	284 00
Snow.....							12 00	12 00
Solon.....							48 50	48 50
Sonora.....							44 63	44 63

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
South.....	\$.....	2 10	\$.....	\$.....	\$.....	\$.....	\$.....	2 10
Southworth alley.....	13 50	.....	13 50
South Bell avenue.....	16 00	9 50	31 10
South Water.....	5 00	.....	.....	.....	.....	246 65	312 55
South Woodland.....	7 00	.....	56 50	.....	.....	3 50	3 50
Southern.....	23 75	23 75
Spafford.....	48 38	.....	.....	.....	63 33	63 33
Spencer.....	16 00	16 00
Spilker.....	72 25	72 25
Spring.....	4 90	.....	.....	.....	.....	56 00	64 27
Spruce.....	4 20	.....	4 07	.....	.....	116 12	116 12
Standard.....
Stanley.....	1 50	.....	.....	4 31	.....	.....	.....	5 81
Star avenue.....	7 70	.....	.....	.....	.....	18 00	25 70
Starkweather avenue.....	6 00	74 75	.....	.....	.....	285 57	346 32
State.....	14 00	7 25	.....	.....	.....	113 00	134 25
Stearns.....	12 25	12 25

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Steinway avenue.....	\$.....	\$ 6 30	\$ 11 25	\$.....	\$ 10 00	\$.....	\$ 136 00	\$ 163 55
Sterling avenue.....	9 80	14 75	.....	.....	.....	262 63	287 18
Storet.....	3 75	41 50	.....	8 07	.....	7 50	60 82
Streator.....	4 90	.....	.....	6 00	.....	.....	9 90
Summit.....	5 75	30 50	.....	.....	.....	.....	64 50	100 75
Sumner.....	7 00	.....	.....	.....	.....	41 50	48 50
Superior.....	142 10	7 00	281 20	4 88	457 00	147 75	1,019 93
Superior at Doan's brook.....	518 72	113 00	.....	1 796 77	2,428 49
Stroboda.....	36 48	36 48
Swiss.....	7 70	3 12	.....	.....	25 00	27 25	63 07
Swiss street bridge.....	26 00	.....	.....	.....	.....	26 00
Sykora.....	85 85	.....	.....	.....	.....	218 10
Tanworth.....	86 30	.....	.....	6 75	.....	.....	93 05
Taunton alley.....	5 28	.....	.....	.....	5 28
Taylor.....	7 70	3 25	.....	7 00	.....	288 50	306 45
Taylor street hill.....	386 25	.....	.....	314 25	710 51
Temon.....	5 00	.....	.....	.....	.....	5 00

TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$.	\$.	\$.	\$.	\$.	\$.	\$.	\$.
Terrett.....							8 50	8 50
Theresa.....							2 75	2 75
Tilden avenue.....		1 40						1 40
Tioga.....			3 00					3 00
Tod.....	2 19	44 55	16 70				584 90	648 34
Track.....							6 72	6 72
Tracey.....		2 80					14 75	17 55
Train.....		1 40					50 25	51 65
Tremont.....					77 00		19 80	96 80
Trowbridge.....							38 10	38 10
Trumbull.....		2 80	11 00				160 00	173 80
Turney avenue.....			13 50					13 50
Union.....		2 80	9 00		8 00		90 00	109 80
University.....		12 60	21 50				57 25	91 35
Upton.....		2 50						2 50
Valley.....		1 40					6 75	8 15
Valentine.....							4 25	4 25

STREETS.

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TABLE No. 1—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Varian.....	\$.....	\$ 2 10	\$.....	\$.....	\$.....	\$.....	\$ 11 06	\$ 13 16
Vega.....	9 10	.....	.....	.....	.....	63 50	72 60
Vernont.....	19 50	22 00	.....	.....	.....	273 85	315 35
Vestry.....	27 50	27 50
Viaduct.....	49 70	77 50	46 45	.....	474 25	.....	647 90
Viaduct (under same).....	37 75	37 75
Victor.....	12 25	12 25
Vincent.....	15 00	.....	15 00
Vine.....	4 90	.....	.....	.....	.....	41 50	46 40
Vinegar Hill.....	5 38	.....	.....	.....	14 87	20 25
Virian.....	22 75	.....	.....	.....	104 47	127 22
Wabash.....	38 00	38 00
Wade avenue.....	8 50	.....	25 00	.....	4 00	37 50
Wade Park avenue.....	25 60	.....	143 25	.....	.....	364 86	534 71
Wadsworth.....	7 50	7 50
Wales.....	6 00	.....	.....	.....	.....	6 00
Wallingford court.....	20 00	20 00

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Walnut.....	\$.....	\$ 2 10	\$.....	\$.....	\$.....	\$.....	\$ 3 88	\$ 5 98
Walton avenue.....	1 40	6 50	.....	.....	.....	118 00	125 90
Walworth run.....	146 00	43 07	13 50	.....	.....	.....	65 62	258 19
Ward.....	12 75	.....	.....	.....	.....	15 00	27 75
Waring.....	70	.....	.....	.....	.....	41 06	41 76
Warner road.....	95 75	.....	.....	.....	60 25	156 00
Warren.....	9 20	.....	.....	.....	128 38	137 58
Washington.....	9 80	71 50	.....	.....	.....	506 50	587 80
Wason.....	4 90	12 50	.....	.....	.....	120 00	137 40
Water.....	15 60	.....	46 90	.....	79 50	.....	142 00
Waverly avenue.....	9 10	6 25	.....	15 00	.....	163 50	193 85
Webster.....	5 60	.....	.....	.....	.....	36 50	42 10
Weckerling.....	23 50	12 50	.....	.....	.....	113 62	148 62
Weddell.....	3 50	.....	.....	.....	.....	.....	3 50
Weimer.....	42 00	.....	.....	.....	13 15	55 15
Wellesley place.....	8 00	8 00
West Clinton.....	5 00	5 00

STREETS.

TABLE No. 1—Continued.

Streets.	Pudding Streets and Washing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Work on Box Gutters, Drains, &c.	Paving Closures and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....		
West Madison avenue.....							24 12	24 12
West Side Market.....		7 00		25 75				32 75
West River.....		28 25	18 25	17 50		3 00	179 75	246 75
Wheatland.....			5 37				27 75	33 12
White avenue.....		3 50	14 50				21 38	30 38
Whitehead.....							39 50	39 50
Whitman.....		5 60					42 50	48 10
Whitney avenue.....							45 00	45 00
Williams.....							52 25	52 25
Wheeler alley.....							6 00	6 00
Wiley.....		4 90	23 75	302 02	5 75		1,031 25	1,367 67
Willcutt.....							31 50	31 50
Willett.....							5 25	5 25
Willow.....		5 60					6 50	12 10
Willson avenue.....	21 00	63 00	42 00	277 00		69 25	1,865 75	2,338 00
Willson place.....							32 75	32 75
Wilmar avenue.....							38 62	38 62

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 1—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box, Gutters, Drains, &c.	Paving (Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Windsor avenue.....	\$.....	\$ 2 10	\$ 4 00	\$.....	\$.....	\$.....	\$ 42 00	\$ 48 10
Winslow.....	5 60	.....	8 75	.....	.....	53 55	67 90
Winter.....	13 00	.....	.....	.....	13 00
Wood.....	3 50	5 00	.....	.....	.....	60 50	78 00
Woodbine.....	10 50	.....	.....	.....	.....	45 75	56 25
Woodbridge.....	59 05	59 65
Woodland avenue.....	88 90	.....	203 37	.....	498 13	457 00	1,247 40
Woodland court.....	50 75	50 75
Woodland Hills avenue.....	19 60	36 00	.....	24 00	.....	2,323 63	2,409 23
Woolsey avenue.....	2 80	.....	.....	.....	.....	14 25	17 05
Yacobi.....	1 40	.....	.....	23 00	.....	.....	24 40
York.....	6 30	26 00	.....	.....	.....	44 70	77 00
Zoefer.....	4 20	.....	.....	.....	.....	43 50	47 70
	\$3,119 27	\$3,883 68	\$6,552 95	\$7,840 26	\$1,983 73	\$9,291 95	\$52,468 03	\$84,060 12

TABLE NO. 2.

CLEANING PAVED STREETS AND CROSS WALKS.

1ST DISTRICT.			
Streets cleaned 117¼ miles.....	\$ 4,483 84		
Cross walks cleaned 6,652.....	332 60	\$ 4,816 44	
2ND DISTRICT.			
Streets cleaned 471¼ miles.....	\$13,039 94		
Cross walks 16,908.....	845 40	\$13,885 34	
3RD DISTRICT.			
Streets Cleaned 77 miles.....	\$ 2,914 10	2,914 10	
			\$21,615 88
Final estimate 1892, paid in 1893 (partial).....			1,849 18
" " 1892, " 1893 (complete).....			305 29
			\$23,770 35
" " 1893, " 1894.....			2,584 94
			\$21,185 41

TABLE No. 3.

Showing work done and moneys paid from funds of Street Sub-Division, Department of Public Works, for the year ending Dec. 31, 1893, and which was charged to and bills rendered against Sewer Districts.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
DISTRICT No. 1.				
Case avenue, No. 1064.....	\$.....	\$.....	6 63	\$ 6 63
Euclid and Case.....		9 43		9 43
Forest between Central and Scovill	52 50			52 50
Forest and Central.....			3 66	3 66
Forest and Woodland.....	17 25			17 25
Kennard and Outhwaite.....			16 56	16 56
Sibley west of Case.....			8 78	8 78
DISTRICT No. 2.				
Humboldt and Croton.....		3 63		3 63
Minnesota and St. Clair.....	6 19			6 19
Prospect and Fern.....	2 00		5 00	7 00
St. Clair, No. 657.....			3 88	3 88
St. Clair north of Sterling.....		9 25		9 25
St. Clair and Waring.....	3 00			3 00
Superior and Dodge.....		3 50		3 50
Superior and Seneca.....	3 00			3 00
Superior cor. Waring.....	6 00			6 00
Woodland and Jackson.....		40 62		40 62
Woodland and Sterling.....		13 25		13 25

TABLE No. 3—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
DISTRICT No. 3.				
Bank street (foot of).....	\$ 3 00	\$.....	\$.....	3 00
Bank street hill.....			5 13	5 13
Bolivar No. 28.....			7 38	7 38
Bond and Hamilton.....			15 94	15 94
Bond and St. Clair.....	20 18	25 00		45 18
Broadway.....		18 00		18 00
Broadway No. 239.....			3 25	3 25
Broadway and Central.....		8 75		8 75
Brownell No. 106.....			3 31	3 31
Central Market.....	18 37			18 37
Central Way and Ohio.....	13 75			13 75
Cross and Broadway.....		15 00		15 00
Dodge, near Euclid.....			8 38	8 38
Erie, between Euclid and Prospect.....			5 38	5 38
Erie and Prospect.....		14 50		14 50
Erie and Summit.....			9 87	9 87
Euclid No. 41.....	10 50			10 50
Euclid and Erie.....	2 19	3 50	3 13	8 82
Euclid and Huntington.....			32 25	32 25
Euclid and Monumental Square.....		5 75		5 75
Euclid, opposite Stillman House.....	3 00		12 38	15 38
Hamilton, bet. Wood and Ontario.....	4 38			4 38
Handy.....			3 66	3 66
Handy No. 110.....			3 87	3 87
Huntington.....			6 63	6 63
Lake No. 440.....	10 50			10 50
Lake and Canfield.....	3 50			3 50
Monumental Square.....	8 75			8 75
Ontario No. 54.....		14 00		14 00
Ontario and Huron.....		5 25		5 25
Ontario and Superior.....		9 00		9 00

TABLE NO. 3—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
Prospect No. 406.....	\$.....	\$.....	\$ 7 25	\$ 7 25
Prospect and Huntington.....	.....	.....	13 50	13 50
Rockwell and Wood.....	.....	9 38	.....	9 38
Seovill n. Vine.....	.....	.....	9 75	9 75
St. Clair n. Erie.....	.....	.....	3 62	3 62
St. Clair and Bond.....	8 75	.....	6 50	15 25
Sheriff, near Euclid.....	.....	.....	22 57	22 57
Sumner and Erie.....	.....	.....	12 50	12 50
Webster and Erie.....	.....	9 25	.....	9 25
Woodland avenue.....	.....	.....	5 75	5 75
Woodland avenue Nos. 104-108.....	4 38	.....	11 25	15 63
DISTRICT No. 4.				
Aust.....	42 50	.....	.....	42 50
Detroit No. 109.....	.....	.....	11 50	11 50
Detroit and Pearl.....	6 00	.....	.....	6 00
Hanover court and Oriole.....	17 00	.....	.....	17 00
Lorain and Mechanic.....	.....	5 63	.....	5 63
Merwin n. Columbus.....	.....	.....	3 25	3 25
Merwin, opposite "Big 4" shops....	.....	36 25	.....	36 25
Merwin, opposite Fulton Foundry	10 75	.....	.....	10 75
Pearl.....	.....	9 25	.....	9 25
Pearl No. 489.....	.....	.....	2 37	2 37
Pearl, near Franklin.....	.....	.....	5 63	5 63
Smith alley.....	10 50	.....	.....	10 50
Tracey and Freeman.....	6 00	.....	.....	6 00
York and Franklin Circle.....	10 50	.....	.....	10 50

TABLE NO. 3—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
DISTRICT No. 5.				
Bridge.....	\$ 10 75	\$.....	\$.....	\$ 10 75
Clinton and Liberty	44 75	.....	.....	44 75
Detroit No. 602.....	.....	.....	8 13	8 13
Detroit court .....	.....	16 25	.....	16 25
Duane and Clinton	25 50	.....	.....	25 50
Hanover and Old River	6 00	.....	.....	6 00
Lorsin and Mechanic.....	.....	.....	15 62	15 62
Old River.....	.....	.....	45 18	45 18
Old River and Division.....	15 00	.....	.....	15 00
Old River and Hanover	12 00	.....	.....	12 00
DISTRICT No. 6.				
Broadway No. 606 .....	.....	3 50	.....	3 50
Broadway at S. O. Co.....	5 00	.....	13 63	18 63
Columbus and Leonard.....	.....	5 63	.....	5 63
Croton and Wadsworth.....	19 00	.....	.....	19 00
Irving .....	.....	8 00	.....	8 00
Irving and Broadway.....	.....	.....	4 07	4 07
Perry and Broadway .....	.....	9 00	.....	9 00
DISTRICT No. 7.				
Ashland and Quincy.....	21 00	.....	.....	21 00
Dorchester.....	6 00	.....	.....	6 00
East Prospect and Sibley court.....	.....	11 50	.....	11 50
Euclid north of Dorchester.....	.....	.....	4 19	4 19
Euclid and Giddings.....	.....	.....	3 21	3 21
Euclid and Olive .....	.....	11 50	.....	11 50
Russell and Quimby.....	.....	.....	9 88	9 88
Schaffer court and Woodland .....	.....	4 88	.....	4 88
Woodland No. 1248 .....	.....	.....	6 25	6 25
Willson No. 1557.....	.....	.....	3 31	3 31
Willson and Cedar.....	4 37	.....	11 50	15 87

TABLE NO. 3—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
DISTRICT No. 8.				
Center and Spruce.....	\$.....	\$ 38 00	\$.....	\$ 38 00
Main and Mulberry.....		15 87		15 87
Main and West River.....	27 75			27 75
Spruce and Centre.....	11 50		9 25	20 75
Sycamore and Main.....	62 56			62 56
West Main No. 37.....			6 63	6 63
DISTRICT No. 9.				
Center and Columbus.....		13 75		13 75
Diamond alley.....		4 00		4 00
Front.....		118 00	46 35	164 35
Front and River.....		11 00		11 00
Hanover and Old River.....			4 19	4 19
Howe.....	10 75			10 75
Main and River.....	3 00			3 00
Main and W. River.....		8 50		8 50
Meadow and Front.....		10 00		10 00
Merwin.....	51 00	28 75		79 75
River and Main.....			3 25	3 25
St. Clair street hill.....			4 70	4 70
Seneca, north end of Bridge.....	3 00			3 00
South Water.....		10 00		10 00
Superior street hill.....			22 40	22 40
DISTRICT No. 10.				
Jefferson street hill.....		7 25	13 00	20 25

TABLE No. 3—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
DISTRICT No. 11.				
Abbey	\$ 1 50	\$.....	\$.....	\$ 1 50
Cliff street hill and Walworth Run.....			18 25	18 25
Fairfield and Scranton.....		9 25		9 25
Jennings avenue foot of.....		17 25		17 25
Jennings and Scranton.....		8 50		8 50
Mentor and Jennings.....	17 50			17 50
Scranton and Jennings.....	4 50	13 65		18 15
Scranton and Walworth Run.....	27 97	17 37		45 34
Walworth Run	18 12	253 82		271 94
DISTRICT No. 12.				
Newark and Rhodes.....		8 75		8 75
Pearl n. Auburn.....			3 25	3 25
Pearl and Barber.....		11 75		11 75
Pearl and Marvin			22 58	22 58
Pearl n. N. P. track.....		10 00		10 00
Pearl and Trowbridge			7 25	7 25
Pearl and Wade avenue.....			17 75	17 75
Pearl and Woodbridge.....		24 50		24 50
Rhodes	5 00			5 00
Vega and Pearl.....	14 75			14 75
Walworth Run	23 12			23 12
DISTRICT No. 14.				
Beck and Case.....	15 75			15 75
Broadway, opp. S. O. C.....		25 75		25 75
Case and Croton		12 00		12 00
Croton.....	21 50			21 50
Grand avenue and N. P. track.....			33 00	33 00
Herald.....			29 00	29 00
Herald and Grand.....			7 00	7 00
Holyoke near Sawtell.....		8 63		8 63
Sawtell.....	42 50	10 50		53 00
Tod and Francis.....	2 19			2 19

TABLE NO. 3—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
DISTRICT No. 15.				
Cedar and Lincoln.....	\$.....	14 62	.....	14 62
Central and Lussenden.....	34 00	.....	.....	34 00
Cornell.....	16 13	.....	.....	16 13
Cornell, No. 110.....	6 00	.....	.....	6 00
E. Madison and E. Prospect.....	.....	.....	25 93	25 93
E. Madison south of Euclid.....	.....	.....	8 00	8 00
Euclid east of Madison.....	.....	.....	16 75	16 75
Euclid east of Mayfield Road.....	.....	.....	16 25	16 25
Glen Park place.....	10 69	.....	.....	10 69
Hoyt and Lake.....	.....	.....	17 00	17 00
Lussenden and Central.....	.....	.....	2 18	2 18
St. Clair and Woolsey.....	6 00	.....	.....	6 00
Stanley and Van Ness.....	.....	.....	4 19	4 19
Woodland and Corwin.....	.....	11 18	.....	11 18
DISTRICT No. 16.				
Bartlett court.....	.....	14 08	.....	14 08
Burton north of Clark.....	8 25	.....	.....	8 25
Burton and Martel.....	6 00	.....	.....	6 00
Clark and Burton.....	6 00	.....	.....	6 00
Clark and Gordon.....	.....	16 38	.....	16 38
Clark and Iona.....	.....	40 12	.....	40 12
Clark and Isabella.....	6 00	.....	.....	6 00
Clark and Selden.....	.....	8 25	.....	8 25
Junction.....	4 38	.....	.....	4 38
Rhodes and Sackett.....	16 86	.....	.....	16 86

TABLE NO. 3—Continued.

Streets.	Puddling Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Paving Gutters and Paving Repairs.	Total.
DISTRICT No. 17.				
Ballou.....	\$	\$ 20 00	\$.....	\$ 20 00
Broadway and Gallup.....			32 00	32 00
Broadway and Jefferson.....			11 25	11 25
Broadway and Kingsbury run.....			20 94	20 94
Rocket and Petrie.....	5 00			5 00
Tod.....		21 50		21 50
Union No. 169.....			14 50	14 50
Union north of Broadway.....		48 00		48 00
DISTRICT No. 18.				
Broadway, No. 2163.....	10 75			10 75
COMMERCIAL DISTRICT.				
Berg and Commercial.....		3 50		3 50
Canal.....			120 00	120 00
Cross.....	5 25			5 25
Fourth and Commercial.....		8 00		8 00
Harrison and Canal.....		7 75		7 75
Hill and Central.....		23 25		23 25
	\$ 979 08	\$ 1,271 92	\$ 942 32	\$ 3,193 32

TABLE No. 4.

Showing repairs to Catch Basins and Sewers done by contractors on orders from Superintendent of Streets, and bills rendered directly against Sewer District Funds (not paid from Street Department Funds.)

Streets.	Sewers.	Catch Basins.
DISTRICT No. 1.		
Arlington and Central.....	\$.....	\$ 13 60
Beach and Central.....		12 90
Case Avenue, No. 1061.....	14 00	
Case and Sibley.....	15 40	
Central avenue.....	28 20	
Central and Forest.....	9 50	
Livington, No. 24.....		12 60
Osborn, No. 201.....	9 50	
St. Clair and McHenry.....		20 80
Sibley, No. 305.....		27 90
Woodland and Osborn.....	12 30	
	\$ 88 90	\$ 87 80
DISTRICT No. 2.		
Alabama.....	\$.....	\$ 15 30
Alabama and Hamilton.....		56 00
Buell and Hamilton.....		17 40
Canfield and Hamilton.....		21 00
Chapel.....	10 00	
Euclid avenue.....	9 50	
Euclid and Perry.....		20 10

TABLE No. 4—Continued.

Streets.	Sewers.	Catch Basins.
DISTRICT No. 2—Continued.		
Greenwood and Pine.....	\$.....	\$ 128 00
Hamilton.....		16 05
Handy.....	9 00	
Kennard and Outhwaite.....	37 20	
Laurel and Central.....		23 00
Maple and Scovill.....		10 85
Oliver.....	24 30	
Payne avenue.....	17 50	
Perry and Orange.....		25 25
Prospect.....	13 80	
Prospect, No. 406.....	13 35	
Prospect and Sterling.....		14 00
St. Clair and Lawrence.....		39 50
Scovill and Henry.....	12 35	
Sterling and Sibley.....		27 40
Wason and Hamilton.....	9 00	
Woodland avenue.....	23 42	
Woodland avenue, No. 455.....	19 35	
Woodland and Irving.....		12 10
	\$ 198 87	\$ 423 95
DISTRICT No. 3.		
Allen and Webster.....		17 50
Bank and Lake.....		12 05
Broadway and Irving.....		16 80
Brownell.....	19 50	
	\$ 19 50	\$ 46 35

TABLE No. 4—Continued.

Streets.	Sewers.	Catch Basins.
DISTRICT No. 3—Continued.		
Dodge	\$ 30 40	\$.....
Euclid.....	23 50	.....
Euclid and Muirson.....	59 95	.....
Handy.....	9 00	.....
Huntington No. 292.....	16 50	.....
Lake and Ontario.....		24 40
Muirson and Canfield.....	194 70	.....
Ontario No. 368.....		10 10
Ontario and St. Clair.....		1 00
Oregon No. 76.....		13 00
Plum and Webster.....		23 70
St. Clair and Bond.....		24 25
St. Clair and Canfield	33 10	.....
Scovill and Vine.....		12 15
Sheriff.....	49 60	.....
Summit.....	11 50	.....
Superior and Erie.....		27 50
Woodland avenue No. 108.....		56 02
	\$ 447 75	\$ 238 47
DISTRICT No. 4.		
Columbus.....	\$.....	\$ 14 70
Columbus and Lorain.....		14 15
Columbus and Franklin.....		6 30
Franklin avenue.....	23 50	22 90
Lorain and Mechanic.....		47 10
Sycamore.....	216 06	.....
	\$ 239 56	\$ 105 15

TABLE NO. 4—Continued.

Streets.	Sewers.	Catch Basins.
DISTRICT No. 5.		
Clinton.....	\$ 6 30	\$.....
Detroit.....	90 90	
Detroit, No. 500.....	39 25	
Franklin and Kentucky.....		26 90
Hanover and Old River.....		84 90
John.....	10 00	
Liberty, No. 142.....	25 80	
Liberty, No. 98.....		23 00
Liberty, No. 128.....	27 05	
Randall and John.....		27 60
Randall and Whitman.....		58 30
Waverly.....		14 80
Waverly and Cass.....		12 20
	\$ 199 30	\$ 247 70
DISTRICT No. 6.		
Broadway.....		38 00
Broadway and Irving.....		30 50
Pittsburg.....	104 10	63 10
	\$ 104 10	\$ 131 60

TABLE No. 4—Continued.

Streets.	Sewers.	Catch Basins.
DISTRICT No. 7.		
Astor.....	\$ 62 45	\$.....
Euclid.....	12 10	
Jessie and Central.....		16 05
Norwood and White avenue.....		14 00
Olive.....	22 35	
Quincy.....	17 00	
Russell and Quimby.....		28 90
Sixth avenue.....	10 50	
Superior.....		29 60
Willson and Cedar.....		14 15
Willson and Kinsman.....	11 75	
Woodland No. 1549.....	13 95	
Woodland and Geneva.....	18 25	
	\$ 168 35	\$ 102 70
DISTRICT No. 8.		
Division and Old River.....		16 85
Division and Pearl.....		21 30
Mulberry.....		19 70
Mulberry and Spruce.....		63 40
Spruce and Mulberry.....	25 38	25 37
Spruce.....	132 00	
Vermont.....		38 30
	\$ 157 38	\$ 184 92

TABLE NO. 4—Continued.

Streets.	Sewers.	Catch Basins.
DISTRICT No. 9.		
Canal.....	\$ 19 80	\$ 21 70
East River.....	187 82	.....
Front.....	15 30	55 82
Main and River.....	39 25	.....
Merwin.....	.....	15 50
River and Front.....	.....	32 00
Spring.....	11 98	.....
	\$ 274 15	\$ 125 02
DISTRICT No. 10.		
Jennings and Fairfield.....	.....	\$ 16 30
	.....	\$ 16 30
DISTRICT No. 11.		
Mentor avenue.....	\$ 27 30	\$.....
Scranton avenue, No. 142.....	.....	17 85
	.....	\$ 17 85
DISTRICT No. 12.		
Pearl and Wade avenue.....	\$.....	\$ 26 85
Queen.....	26 90	.....
	\$ 26 90	\$ 26 85
DISTRICT No. 14.		
Tod and Francis.....	\$ 29 05	\$ 29 05
	\$ 29 05	\$ 29 05

TABLE NO. 4—Continued.

Streets.	Sewers.	Catch Basins.
DISTRICT No. 15.		
Ansel avenue.....	\$.....	\$ 26 15
Brenton	20 15	.....
Brooker and Central.....	.....	14 75
Cedar.....	18 00	.....
Cedar and Logan.....	18 25	.....
Doan .....	.....	52 30
East Madison avenue.....	21 50	.....
Euclid avenue.....	19 50	.....
Grand avenue and East Madison.....	.....	27 60
Oakdale No. 999.....	15 65	.....
Stanley avenue.....	14 40	.....
Superior.....	.....	86 45
	\$ 127 45	\$ 207 25
DISTRICT No. 16.		
Junction.....	\$ 78 40	\$.....
Newark.....	.....	104 85
	\$ 78 40	\$ 104 85
DISTRICT No. 17.		
Broadway and Jefferson.....	\$.....	\$ 12 25
Portage and Broadway.....	12 10	.....
Union.....	.....	25 20
Wheatland, near Broadway.....	.....	26 05
	\$ 12 10	\$ 63 50
COMMERCIAL DISTRICT.		
Canal and Vinegar Hill.....	\$.....	\$ 8 00
	\$.....	\$ 8 00
Total.....	\$ 2,179 56	\$ 2,120 96

TABLE NO. 5.

Showing Character and Cost of all Repairs to Street Intersections under Street Sub-Division, Department of Public Works, for the Year ending December 31st, 1893.

	Paving Repairs.
Barber and Pearl.....	\$ 3 25
Bright and St. Clair	5 62
Broadway and Perry	5 63
Canal and Seneca.....	11 25
Center and Main.....	5 62
Cumberland and Woodland	20 12
Eagle and Erie	2 38
Erie and Prospect.....	2 37
Erie and St. Clair.....	17 13
Euclid and Erie	2 87
Franklin and Duane.....	6 25
Lorain and Dare.....	10 37
Lorain and Fulton.....	2 37
Lorain and Harbor	11 25
Lorain and Mechanic.....	3 13
Lorain and Swiss	34 63
Miscellaneous	26 50
Noble and Seneca	3 25
Oakdale and Yeakel.....	23 00
Ontario and Huron	9 37
Ontario and Prospect.....	6 25
Ontario and Rockwell.....	7 13
Ontario and Superior	8 37
Pearl and Barber.....	3 25
Pearl and Trowbridge.....	14 75
Petrie and Hamm	9 37
Prospect and Erie	12 50
Prospect and Sheriff	11 50

TABLE NO. 5—Continued.

<i>Forward</i>		\$ 354 86
Rhodes and Sacket	\$ 5 63	
St. Clair and Erie.....	3 25	
Scranton and Jennings.....	3 25	
Seneca and St. Clair.....	7 25	
Superior and Danforth	11 25	
Superior and Erie	12 50	
Superior and Seneca.....	5 00	
Superior and Spring.....	26 00	
Superior and Sterling	5 62	
West River and Washington.....	5 63	
Willson and Hawthorne.....	11 50	
Willson and Homer.....	9 37	
Willson and School.....	5 75	
Winslow and West Center.....	21 80	
Woodland and Cemetery.....	14 50	
Woodland and Jackson.....	23 00	
Woodland and Oakdale.....	25 50	
Woodland and Pier.....	25 00	
Woodland and Sterling.....	12 50	
		\$ 503 78

TABLE No. 6.

Showing Character and Cost of all Paving Repairs to Streets by contractors, under Street Sub-Division, Department of Public Works, for the year ending Dec. 31st, 1893, as shown by bills rendered.

Buckeye (gutters).....	\$ 14 16
Elm.....	207 35
Erie.....	29 00
Forest.....	122 91
Forest street hill (gutters).....	84 50
Holmden (gutters).....	207 90
Jefferson street hill (gutters).....	224 90
Mill.....	65 52
Prospect (gutters).....	81 02
Prospect.....	110 22
Rhodes avenue (gutters).....	406 97
St. Clair.....	180 54
Seneca.....	232 84
Superior.....	9 60
Union (gutters).....	113 52
Wade Park avenue (gutters).....	112 00
Washington (gutters).....	208 56
Washington.....	137 14
Woodland avenue.....	189 63
	\$2,738 28

TABLE NO. 7.

Showing Cost of Extra Cleaning on Paved Streets under Street Sub-Division, Department of Public Works, for the year ending Dec. 31st, 1893, as shown by bills rendered.

Euclid avenue.....	\$ 93 50
Huron.....	5 00
Monumental Square.....	13 00
Ontario.....	48 75
Prospect.....	24 34
Rockwell.....	5 00
Seneca.....	29 00
Spring.....	1 50
Superior.....	163 50
Water.....	18 10
Wood.....	5 00
Woodland.....	87 25

\$493 94

TABLE No. 8.

Showing Cost of Repairs to Unpaved Streets by contractors, under Street Sub-Division, Department of Public Works, for the year ending Dec 31st, 1893, as shown by bills rendered.

Ackley avenue.....	\$ 312 06
Clark avenue.....	22 05
Czar	108 32
Mill street hill.....	124 48
Rhodes avenue.....	53 84
Vinegar street hill.....	89 25
Willey	58 50
	\$ 768 50

SUMMARY OF ALL WORK AND EXPENDITURES DURING THE YEAR 1893.

Streets.	Puddling Streets and Finishing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Gutters and Paving Repairs.	Laying and Re-Laying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
Table No. 1.....	\$ 3,119 27	\$ 3,903 83	\$ 6,552 95	\$ 7,840 26	\$ 1,983 73	\$ 8,291 95	\$ 52,468 03	\$ 84,060 12
Table No. 2.....						21,185 41		21,185 41
Table No. 3.....	979 08	1,271 92		942 32				3,193 32
Table No. 5.....				503 78				503 78
Table No. 6.....				2,738 28				2,738 28
Table No. 7.....						493 94		493 94
Table No. 8.....							768 50	768 50
Lumber, Hardware, Tar, &c., as per bills.								8,812 17
Salaries of officers.....								9,819 13
Salaries of Yard Masters, Dumpers } and Janitor.....								2,192 81
*Salaries of Paving Inspectors.....								2,218 00
Cleaning Catch Basins—final estim. 1892.								686 25
Cleaning Catch Basins 1892—compromis- ed cm. J. Knittel, as per council resol.								296 50
Ackley avenue culvert.....								2,575 35
								\$139,553 56

*Work done under direction of Engineer's Department for Street Car Co's, Gas Co's, etc., and amounts collected from the different companies and covered into City Treasury.

Table No. 4.....	Sewers.	Catch Basins.
	\$2,179 56	\$2,120 96

Department of Public Works.

THIRD DIVISION.

Report of the Chief Engineer.

Report of the Chief Engineer.

Hon. John H. Farley, Director of Public Works:

DEAR SIR:—I desire to submit the following report, with accompanying tables, of the work of the Third Sub-Division of the Department of Public Works for the year ending December 31st, 1893:

The total expenditure for contract work of all kinds under the direction of the Chief Engineer during the last year is \$1,475,383.37, or double that of the preceding year.

The rapid increase in the amount of work performed by this Sub-Division rendered evident the pressing necessity of a better organization. One of the first responsibilities assumed, therefore, was the re-organization of the office force and the creation of Divisions with an Assistant Engineer in charge and at the head of each; the divisions being accorded separate space and properly designated so as to admit of as little delay as possible in the transaction of public business.

STREET PAVING.

Fifty-one streets were under contract for paving or re-paving during the year. Twenty-four of these pavements were of Medina dressed block sandstone; two were of Medina common stone pavement; fourteen were paved with paving bricks and three with Trinidad sheet asphalt; the whole aggregating 18.67 miles. Two of these streets, Dodge and Swiss streets, were left

unfinished the previous year. Thirty-eight streets were completed during the year and eleven left incomplete. The aggregate cost of the above work done during the year is \$860,992.99; the estimated cost to complete the eleven unfinished streets is \$143,903.00.

The principal streets paved or re-paved with stone during the year were Broadway from Union to Miles avenue, Michigan and Champlain streets from Ontario to Canal streets, Kinsman street from Willson to Woodland Hills avenue, Orange street between Cross and Humboldt streets, Prospect street between Erie and Ontario streets, and Superior street from Public Square to Water street, this last having a foundation of hydraulic cement concrete—the only pavement in the city thus far, except the asphalts, having a concrete base.

Payne avenue between Muirson and Willson avenue, and Kinsman street between Willson and Woodland Hills avenues, are among the uncompleted streets.

Of the fourteen streets paved with bricks during the year, all were completed except Genesee street between Hough and Wade Park avenue, and the two parts of Logan avenue between Lamont street and Cedar avenue.

All brick pavements laid during the year were laid with a single course of bricks placed directly upon the earth foundation properly prepared, the joints of the bricks being filled with hot asphaltic cement, the same as is used in stone pavements.

These brick pavements have thus far proved very satisfactory for the light traffic and residence streets, where nearly all such pavements are laid. With one or two exceptions, where slight settlements have occurred over sewer and water trenches, the surfaces of all brick pavements thus far laid show a fair and even surface, and very little evidence of wear. In no instance, I believe, has any portion of these streets ever been taken up for repairs, and only in one or two places, above referred to, do

they seem to require any attention. The first brick pavements laid by the City were put down in 1889.

The amount expended for street pavements during the year is more than 300% greater than the amount expended in 1892.

All of the asphalt pavements laid in this City, about $2\frac{3}{4}$ miles, appear to be in good condition. The first of these pavements was laid in 1890; the last, East Prospect street, paved during the season, is 1 2-5 miles in length and cost \$100,978.00.

All asphalt pavements should be more frequently cleaned and the dust removed from the street, instead of sprinkling it, as the constant use of water from the sprinklers is claimed to be injurious to these pavements.

All stone and brick pavements laid during the year were laid under a two year guaranty by the contractors, a guaranty fund of two cents per square foot for block stone, $1\frac{3}{4}$ cents per foot for common stone, and $1\frac{1}{2}$ cents per foot for brick pavements, being retained by the City to the end of the term.

The effect of the guaranty clause in the contract has insured greater care on the part of the contractors in an attempt to keep out soft and inferior material, and to secure better foundations for the pavements. I would recommend that the length of the guaranty be extended to not less than three years, believing that we will secure better pavements thereby, while the contractor will have ample opportunity to protect his own interest in the price he bids for his work.

All asphalt pavements laid by the City are laid under a ten year guaranty, 10% of the cost of each improvement being left on deposit with the City during the term of the guaranty.

In the case of stone pavements, the assorting of stones and classifying them as to sizes into two or more divisions before they reach the paver, is contemplated for next season's work. This will undoubtedly secure more uniformity in the rows, closer and better work.

The pavement work prepared this season for next year's work embraces twenty-nine streets, estimated to cost \$499,054.28, to which should be added the eleven unfinished streets of this year, estimated to cost \$143,903.00, making forty streets to be improved during 1894 at an estimated cost of \$642,957.28.

GRADING AND CURBING.

Fourteen streets were graded, or graded and curbed, during the year, at a cost of \$25,345.75, as against \$31,766.81 expended in 1892.

This partial improvement of streets by grading and curbing, when, in most cases they should be permanently improved by paving them, is now quite generally discouraged by the city. As a result the average amount expended annually for this class of improvements is gradually decreasing from year to year, while the average annual expenditure for pavements is on the increase.

HOUSE SEWER AND WATER CONNECTIONS.

Upon all streets about to be paved, all house sewer, water and gas connections were ordered to be constructed to curb line in advance of the paving. This rule has been rigidly enforced during the year. All lot owners were served with a notice to put in a specified number of connections to curb line, if the number named were not already in; and, if not done within the time named in the notice, the work was constructed by the city by contract for delinquent connections, and the cost charged against the lot.

So generally are these notices observed by the property owners that only in very rare cases is the city compelled to put these connections in.

Eighteen hundred and thirty-two (1832) sewer and water connections, in addition to those already in, were put in to curb

line in advance of the paving during the season. Of this number only fifty-four (54) connections, or less than three per cent. of the whole number put in, became delinquent and were put in by the city.

SEWERS.

Methods of designing, construction, etc., have been radically altered in connection with sewers. A separate division has been created, that of "Sewers and Drains," an experienced engineer, Mr. F. C. Williams, placed in charge, and the division is rapidly being placed upon an intelligent, scientific basis.

During the year 13.986 miles of main and local sewers have been built, at a cost of \$317,272.40.

The principal main sewers constructed were Forest street from Broadway to Kingsbury Run, which was designed as an overflow for storm water from Broadway sewer; Burton street, from Clark avenue to Walworth run, and Seneca street sewer from Superior street to Summit street. Holton avenue sewer from East Madison avenue to Woodland Hills avenue is now in course of construction, and the work has been carried on during the winter with only slight delays, owing to the exceptionally open weather and favorable quality of the soil.

A full list of the sewers built during the year, showing the size, length, cost of construction, and names of contractors, will be found in table No. 3.

The aggregate length of main and local sewers to be constructed during the coming season is 13.21 miles, the most important of which are: Lake street, from Marquette street to Case avenue; Selden avenue, from Clark avenue to Storer avenue; Wason street, from Lake Erie to Superior street; Woolsey street, from St. Clair street to Superior street. Holton avenue sewer, from East Madison avenue to Woodland Hills

avenue, partially constructed since October, will be carried on to completion; a full description of which will be found in table No. 7.

In addition to the above, plans for a large amount of sewerage work are being considered and are under way; the most important of which are: a main sewer in Mill street and Brighton street, from Walworth street to the southerly city limits; Marcelline avenue, from Broadway to Harvard street, and Harvard street, from Marcelline avenue to Broadway.

A new sewer district, embracing territory known as the Polish settlement, with the principal sewer in Tod street, south of Broadway, was established. The first sewer in this district was built in November last along Forman street and Ledyard street, with an outlet into Broadway.

The main sewer in Tod street above mentioned embraces substantially all the territory bounded by Marcelline avenue, Broadway, Ackley and Skinner avenues, and Burke brook, and is known as Tod street Main Sewer District No. 19. A general plan for sewers in all of the streets in this district has been prepared and adopted. Plans for a sewer in Walworth street, from Gordon avenue to Scranton avenue, with a temporary outlet into the Cuyahoga River, have been prepared and were approved by the Board of Control.

An estimate and declaratory resolution were prepared, but as sufficient money for the construction of said sewer could not be raised by taxation for the sewer district benefited, proceedings were temporarily suspended, and a bill has been prepared for presentation in the Legislature to obtain power to place a portion of the cost of said sewer on the entire city.

The sizes of the sewer as approved by the Board of Control are 12 feet 3 inches at the Cuyahoga River, and 5 feet 8 inches at Gordon avenue, gradually diminishing in size between the points above mentioned. The total length will be about 13,400 feet. In designing this sewer it was considered safe to adopt a

limiting velocity of 10 feet per second by the use of a shale brick lining. Any surplus grade, owing to the rapid fall of the valley of Walworth Run, to be destroyed by steps and weirs at certain man-holes.

The quality of the work during the past season has shown a marked improvement over previous years both in workmanship and quality of materials.

New specifications are in the "Press" for all sewer work, and it is hoped that much better work will be obtained in the future than heretofore.

A map of the city on a scale of 400 feet to the inch has been prepared in sections for convenience of handling, showing the size, depth and elevations of all sewers up to date.

During the year the sewer cleaning gang have done good work, thirty-four sewers having been thoroughly cleaned. Many of the sewers were entirely filled up with sand. In addition to cleaning the above number of sewers the gang built thirty-three man-holes and three catch basins, and performed a quantity of other miscellaneous work.

I would recommend that a system of flushing tanks be put in on all pipe sewers, and flushing gates on brick sewers built in the future where the grades are necessarily light.

CEMENT TESTS.

Two hundred and twenty-two (222) tests have been made during the year of all cement used by the city in the construction of sewers, masonry and concrete under pavements and a record has been kept of the relative strength of all brands of cement used.

VIADUCTS AND BRIDGES.

During the last year new bridges have been constructed over the Valley Railway tracks at South Water street and Doan brook

at crossing of Cedar avenue. Plans have been made and a very extensive improvement is now under way at Petrie street crossing of Morgan run. The latter improvement consisting of an embankment 70 feet in height crossing the Valley in connection with plate girder spans over the C. C. & S. R'y tracks.

For small and ordinary size spans, riveted work has been used with permanent roadways, that is, steel trough sections, or buckled plates with concrete, sand and shale brick pavement.

The experience with wood pavements on viaducts and bridges has been such as to warrant almost any rational increase in first cost of the structure to avoid the use of the same.

Plans have been made and the material purchased for a Howe truss span at Lime street; the intention being to have the city bridge gang frame and erect the same.

Plans are also in process of completion for Columbus street swing bridge, also the approach span to Jefferson street bridge.

Efforts should be made to have Center street and Willow street swing bridges replaced as soon as possible.

A large amount of work has been performed during the past season by the bridge gang, consisting of miscellaneous repairs to swing and other bridges.

Kingsbury viaduct and other structures are undergoing serious and permanent injury for lack of repainting and should receive immediate attention.

The use of long leaf southern pine paving blocks on the viaducts has not been a success owing to their slippery character and the excessive checking of the blocks. The evil results of laying the blocks with close joints have also been fully demonstrated.

DREDGING.

The contract for dredging made between the City of Cleveland and John Stang, of Lorain, O., was for a period of five (5) years, dating from April 1, 1890, the contracting price being fifteen cents per cubic yard.

During the last year the channel was dredged to a depth of seventeen feet between the L. S. & M. S. draw bridge and that of the N. Y. P. & O. R'y; to a depth of fourteen feet between the latter and Jefferson street bridge; and one cut twelve feet deep was dredged from Jefferson street to the canal lock.

The total amount of yards excavated during the season was 131,455 yards, representing a cost of \$19,718.25. At the expiration of the five years' contract, I would recommend that the city designate the dumping grounds used at present by the U. S. Government, the same being a greater distance to the eastward and less liable to damage the outer harbor.

Would also suggest that steps be taken to exercise some control over dredging by private parties, and thereby prevent the indiscriminate dumping in the vicinity of the piers.

SURVEYS.

The surveys made during the year, as given in Table No. 11, number two hundred and six, being one hundred and one surveys more than made in 1892.

Of the surveys that deserve special mention, are those for the proposed extensions, openings or widenings of streets. A very elaborate survey was made for the widening of Highland street, which required a survey of Cedar avenue from the west line of M. L. Stark's allotment to Glenwood street; of Fairmount street from Euclid avenue to Woodland Hills avenue; also of Highland street from Fairmount street to Glenwood street, and the location of the original lot line between original lots 402 and 410 from the west line of Stark's allotment to Glenwood street, and also location of the lot line between original lots 402 and 403 of Stark avenue from Fairmount street to Cedar avenue, of Wilbur street from Stark avenue to the west line of Mary Roy's allotment, of Stearns street from Cedar avenue to Highland street, and of Glenwood street from Cedar avenue to Highland street.

The proposed widening of High street at its easterly end also demanded an extensive survey and included the establishment of lines of the following streets: Superior street between Ontario and Erie streets, Euclid avenue between Sheriff and Erie streets, Prospect street between Ontario and Erie streets, Huron street between Ontario and Erie streets, Erie street between Superior and Huron streets, and Ontario street between Superior and Huron streets; also Sheriff street between Huron street and Euclid avenue, of Middle street between Prospect and High streets, and High street the entire length; also the location of every building, &c., enclosed by Sheriff, Huron and Prospect streets.

The survey for the opening of Clara street necessitated the establishment of the lines of Luther street, of a part of Willson and Giddings avenues and the location of the buildings, etc., in the route of the proposed streets.

Worth special mention are also the surveys for the proposed extension of Wooldridge avenue from the south line of original lot 328 to Willson avenue, of a part of Broadway for widening said Broadway between Miles Park avenue and Walker street, of the proposed opening of Merchant avenue from Auburn street to the north line of Branch allotment the extension of Brooklyn avenue from the north line of J. S. Edward's allotment to Trowbridge avenue, and Storer avenue extension from the east line of Heffner & Beranek's allotment to Pleasant street.

The last two mentioned surveys required the establishment of the center lines of Brooklyn avenue between Daisy and Trowbridge avenues, Brooklyn street between Moyer avenue and Trowbridge avenue, of Louis street between Moyer and Trowbridge avenues, of Woodbridge avenue between Brooklyn avenue and the west line of original lot 66; also of Storer avenue between the west line of original lot 67 and Pleasant street, of Pleasant street between Sackett street and the South line of

original lot 67, and of Sackett street between Brooklyn street and the west line of original lot 67.

Another extensive survey was made to determine the line between the old Giddings and Brooker farms in original lot 336, and the survey for the widening of Euclid avenue from the old city limits to Lake View avenue.

A number of surveys were made on Whiskey Island for defining the shore line of Lake Erie east of West River street, and locating the tracks of the L. S. & M. S. R. R. between West River street and the L. S. & M. S. R. R. bridge. A survey of the Cuyahoga River from middle to upper Seneca street bridge, for the establishment of dock lines between said points, was also commenced and will be finished during the coming year. Different surveys were made for the location of existing docks at various points.

The correct street lines were also located previous to the building of Cedar avenue, Center street, South Water street and Petrie street bridges.

The establishment of the lines for the right of way for the Walworth Run sewer across the N. Y. P. & O. R. R. tracks demanded a very elaborate survey and required much time and labor.

A large number of surveys were made to determine the lines of streets previous to their various improvements, also for relocating and resetting of monuments.

SUBDIVISION OF PLATS AND NEW STREETS.

Twenty-eight plats or maps of subdivisions were examined and reported upon by the Chief Engineer before their approval by the council.

Twenty-eight streets, or parts of streets, and six alleys were laid out by these plats.

The streets measure 3.75 miles and the alleys 0.61 miles in length.

The names of the sub-divisions, with dates of approval by the council, and date of filing, and volume and page in County Records, are given in Table No. 12.

The streets and alleys laid out in these sub-divisions are given in Table No. 18.

STREET MONUMENTS.

Unusual care was taken during the year in preserving, protecting, re-locating and re-setting of monuments defining streets and property lines.

Previous to any street improvement these monuments were carefully referenced and tied up by steel tape measurements, so that they may be exactly reset again after the ground has sufficiently settled.

Number of monuments referenced,	. . . . .	311
“ “ “ reset from reference,	. . . . .	210
“ “ “ “ “ survey,	. . . . .	65
“ “ “ raised or lowered,	. . . . .	29
“ “ “ tested,	. . . . .	46
“ “ “ location changed,	. . . . .	4
		<hr/>
Total,	. . . . .	665

HOUSE NUMBERING.

Surveys and maps have been made and numbers assigned on forty-five streets during the year of 1893, amounting to 23.52 miles.

Upon these streets 12,401 numbers have been assigned, being one for every twenty feet front including intersections of streets.

Two thousand three hundred and thirty-three buildings have been located and platted, numbers placed on 2,320 houses and 55 numbers assigned to citizens by this office.

Ordinances to provide for the acceptance, changing of names and dedication of streets were prepared during the year, also descriptions for ordinances and resolutions, were furnished to the Department of Law for opening and vacating streets.

As the time will come when the dock line along the Cuyahoga River from the Way Lock towards Harvard street will have to be established, there should be proper care taken now to preserve the points of the survey made two years ago by setting monuments.

STREET LIGHTING.

The total number of gas and vapor lamps in use by the City on December 31, 1893, was 9,551; 5,472 of which were gas and 4,079 vapor lamps, or a total increase of 542 gas and 96 vapor lamps, or a total increase of 638 lamps.

Table No. 17 shows the number of new lamps lighted, old lamps re-lighted and lamps discontinued by each of the companies furnishing light to the City.

The new lamps were all located and the changes noted on the street lamp maps on file in this department.

The number of 2,000 candle power electric lights was increased from 188 to 230, an increase of 42 during the year. The 20 4,000 candle power electric lamps on masts in lighting, Dec. 31, 1892, have been abandoned, and the masts removed, except the one in the center of the Public Square; this mast was lowered 100 feet and eight (8) 2,000 c. p. lamps substituted for the eight (8) 4,000 c. p. lamps.

The cost of each 2,000 c. p. lamps remains the same as last year, \$88.67 per year.

The price of each gas lamp for the year was \$17.90, including the furnishing of all glass; the former price was \$18.50 exclusive of glass, which latter averaged about 30 cents each lamp per year additional.

The cost of each vapor lamp per year remains the same as last year, \$15.25 per lamp.

The gas and vapor lamps were lighted on an all-night schedule of 3,760 hours; the electric lamps on a moonlight

schedule of 2,300 hours, which, however, could have been increased to 2,800 hours without extra cost to the City.

The total cost of street lighting for the year, including costs of new posts, lanterns, repairs, etc., was \$185,317.61, being an increase of \$12,814.85 over the previous year, due to the increase in the number of lamps.

All lamps found not burning, as reported by patrolmen, were deducted from the bills of the several lighting companies from month to month during the year.

All new lamp posts and lanterns were carefully inspected before being accepted.

SIDEWALKS.

Stakes have been set for grade and line for about five miles of sidewalk during the year, the greater portion of which were for walks laid by the property owners on notice from the Mayor. In addition to this, however, there has been laid under the City contract for delinquent sidewalks 15,400 square feet at a cost of \$1,512.23.

No walks are ordered laid under this contract until after the tax for the same has been collected.

RESUMÉ.

The appended tables clearly indicate the great volume and diversity of business transacted by this division of your department during the past season, and I desire to take this opportunity to express my appreciation of the hearty co-operation of all of the assistants connected with the same and of the ability they have displayed in the discharge of their numerous duties.

Very respectfully,

WALTER P. RICE,
Chief Engineer.

TABLE NO. 1.
STREETS PAVED OR REPAVED DURING 1893.

Street.	From	To	How Improved.	Cost.	Length in Feet.	Contractor.
Beech.....	Scovill avenue.....	Woodland avenue.....	Brick paving...	\$ 4,641 42	1,191	J. L. & H. L. Sterling.....
Beech.....	Central avenue.....	Scovill avenue.....	Brick paving...	4,984 21	1,384	J. L. & H. L. Sterling.....
Broadway.....	Union.....	Miles avenue.....	Stone paving...	103,444 74	9,146	L. & J. F. Brennan.....
Bolivar.....	Erie.....	892 feet East.....	Stone paving...	9,013 29	892	Northern Ohio P. & C. Co.....
†Burton.....	Lorain.....	Clark avenue.....	Stone paving...	23,113 45	2,330	Kuentsz & Burnett.....
Champlain.....	Canal.....	Ontario.....	Stone repaving...	22,406 81	1,715	L. & J. F. Brennan.....
Central and	Pearl street Viaduct.....		Wood paving...	31,717 23	3,212	J. L. & H. L. Sterling.....
Clinton.....	Hanover.....	Liberty.....	Brick paving...	16,956 20	3,212	Reehl Bros.....
†Cross.....	Broadway.....	Berg.....	Stone paving...	3,236 80		L. & J. F. Brennan.....
†Central avenue.....	Willson avenue.....	C. & P. R. R.....	Stone paving...	3,766 50		J. L. & H. L. Sterling.....
*Dodge.....	Lake.....	Euclid avenue.....	Brick paving...	4,157 83	2,877	Buettner & Orley.....
Dunham avenue.....	Hough avenue.....	Euclid avenue.....	Brick paving...	6,202 24	1,495	J. L. & H. L. Sterling.....
Decatur alley.....	Central avenue.....	Cross.....	Stone paving...	3,088 48	857	Albion Stone Co.....
East Prospect street.....	Willson avenue.....	Bolton avenue.....	Asphalt pav'g.....	100,978 20	7,385	Warren-Scharf Asph. P. Co.....
East River street.....	Front.....	St. Clair street.....	Stone paving...	28,924 81	1,801	L. & J. F. Brennan.....
Fourth avenue.....	Willson avenue.....	Second avenue.....	Brick paving...	7,876 53	1,461	J. L. & H. L. Sterling.....
†Itnesee avenue.....	Wade Park avenue.....	Hough avenue.....	Brick paving...	7,297 20	1,500	Peter Ruthenbecker.....

TABLE No. 1—Continued.

Name of Street.	From	To	How Improved.	Cost.	Length in Feet.	Contractor.
High.....	Ontario.....	Sheriff.....	Stone paving.....	\$ 4,685 33	468	Northern Ohio P. & C. Co.....
Huntington.....	Prospect.....	Central avenue.....	Stone paving.....	4,266 71	884	Northern Ohio P. & C. Co.....
Huntington.....	Superior.....	Euclid avenue.....	Brick paving.....	8,698 82	1,824	Roehl Bros.....
Humboldt.....	Orange.....	313 ft. south of Croton.....	Stone paving.....	7,944 91	913	Northern Ohio P. & C. Co.....
Harkness avenue.....	Hough avenue.....	Euclid avenue.....	Brick paving.....	12,360 16	2,361	Roehl & Warden.....
Hill.....	Commercial.....	Cross.....	Stone paving.....	6,786 52	861	Northern Ohio P. & C. Co.....
†Kinsman.....	Willson avenue.....	Woodland avenue.....	Stone paving.....	75,122 49	8,010	J. L. & H. L. Sterling.....
Liberty.....	Detroit.....	Franklin avenue.....	Brick paving.....	3,717 11	7,247	J. L. & H. L. Sterling.....
Livingston.....	Cedar avenue.....	Central avenue.....	Brick paving.....	3,761 36	1,283	J. L. & H. L. Sterling.....
†Logan avenue.....	Euclid avenue.....	Cedar avenue.....	Brick paving.....	4,668 60	920	J. L. & H. L. Sterling.....
†Logan avenue.....	Euclid avenue.....	Lamont.....	Brick paving.....	3,655 40	360	J. L. & H. L. Sterling.....
†Monumental court.....	Superior.....	East line Monumental sq.....	Asphalt pav'g.....	4,515 85	202	Warren Scharf Amph. Pav. Co
Mayfield.....	Euclid avenue.....	648 feet east.....	Stone paving.....	4,037 17	648	Albion Stone Co.....
Marrin avenue.....	Pearl.....	Rhodes avenue.....	Brick paving.....	16,175 07	2,978	Roehl Bros.....
Michigan.....	Canal.....	Ontario.....	Stone paving.....	21,318 46	1,098	Northern Ohio P. & C. Co.....
Orange.....	Cross.....	East line Perry.....	Stone paving.....	12,687 25	1,760	Northern Ohio P. & C. Co.....
Orange.....	Perry.....	East line Humboldt.....	Stone paving.....	20,927 29	2,828	Northern Ohio P. & C. Co.....
Prospect.....	Ontario.....	Center of Erie.....	Stone paving.....	33,044 33	1,762	L. & J. F. Brennan.....
†Payne avenue.....	Muirson.....	Willson avenue.....	Stone paving.....	42,467 90	1,785	J. L. & H. L. Sterling.....

TABLE No. 1—Continued.

Name of Street.	From	To	How Improved.	Cost.	Length in Feet.	Contractor.
Perry.....	Woodland avenue	Broadway	Stone paving...	\$ 9,738 64	888	Northern Ohio P. & C. Co.....
Rockwell.....	Monumental square	East line Wood	Stone repav'g.	5,250 66	316	Northern Ohio P. & C. Co.....
Rockwell.....	Wood	Erie	Stone paving...	10,150 79	914	Northern Ohio P. & C. Co.....
Sterling avenue	Prospect	Cedar avenue	Stone paving...	7,019 27	744	Northern Ohio P. & C. Co.....
Sterling avenue	Euclid avenue	Prospect	Stone repav'g.	3,916 82	401	Albion Stone Co.....
Spangler avenue	Euclid avenue	917 feet north	Brick paving...	4,388 39	917	Roehl Bros.....
Seneca.....	Middle Bridge	Upper Bridge	Stone repav'g.	24,752 65	2,250	L. & J. F. Brennan.....
†Seneca.....	Summit	St. Clair	Stone repav'g.	12,285 39	407	Northern Ohio P. & C. Co.....
Superior.....	West line of Water	Monumental square	Stone repav'g.	40,422 74	500	L. & J. F. Brennan.....
S. Woodland avenue	216 ft. east of Lincoln ave	E. l. Woodland Hills ave.	Stone repav'g.	5,085 46	3,656	J. L. & H. L. Sterling.....
*Swiss.....	Lorain	Clark avenue	Stone paving...	1,477 74	2,621	Warren Farr.....
†Wheller place	Central avenue	Eagle	Stone paving...	1,000 00	414	Warren Farr.....
Woodland avenue	East Madison avenue	216 ft. east of Lincoln ave	Stone repav'g.	13,722 32	1,233	Northern Ohio P. & C. Co.....
Wood.....	St. Clair	Superior	Stone repav'g.	9,121 42	558	Northern Ohio P. & C. Co.....
				\$ 860,992 99	95,407—18 67-100 miles.	

* Amount expended during 1883 to complete the work.

† Amount expended during 1883 not completed.

TABLE No. 2.
STREETS GRADED OR CURBED DURING 1893.

Name of Street.	From	To	How Improved.	Cost.	Length.	Contractor.
Ashland avenue.....	Central avenue.....	Quincy.....	Grade and curb.....	\$ 785 75	990	John Moran.
Cumberland.....	Bolton avenue.....	Oakdale .. .	Grade.....	85 40	740	John Moran.
Gaylord.....	W. Hills avenue.....	City limits.....	Grade, curbed & cindered	3,872 54	1,660	Patrick O'Donnell.
Hamilton.....	Case avenue.....	Marquette.....	Grade and curb.....	5,765 81	3,649	North.Ohio Pav. & Con.Co
Holyoke place.....	Sawtell avenue.....	West End.....	Grade and curb.....	734 05	906	J. & P. O'Donnell.
Homewood.....	Union.....	Morgan avenue.....	Grade, curb and culvert..	4,836 01	1,444	T. J. McManus.
Hayward.....	Cedar avenue.....	Central avenue.....	Grade and curb.....	987 26	903	T. J. McManus.
Kirtland.....	Superior.....	Payne avenue.....	Grade and curb.....	1,614 70	1,540	J. & P. O'Donnell.
Lather.....	Willson avenue.....	Kirtland.....	Grade and curb.....	848 48	933	J. & P. O'Donnell.
Mason.....	Case avenue.....	Willson avenue.....	Grade and curb.....	2,152 41	1,814	John Moran.
Queen.....	Pearl.....	West End.....	Grade and curb.....	941 17	625	John Moran.
Track.....	Mead.....	Sawtell avenue.....	Grade.....	137 09	735	J. & G. E. Whitehouse.
Wade Park avenue.....	Marcy avenue.....	Crawford road.....	Grade and curb.....	1,714 59	1,755	John Moran.
Wallingford court.....	Woodland avenue.....	Burwell.....	Grade and curb.....	860 49	864	Roehl Bros.
Total.....	.....	.....	.....	\$ 25,345 75	18,578	-3.52 miles.

TABLE No. 3.
SEWERS CONSTRUCTED IN 1893.

Street Name.	From	To	Length in Feet.	Size.	Material	Cost.	Contractors.
Barber avenue.....	Pearl street.....	Rhodes avenue.....	1,311	No. 2.....	Brick.....	\$ 3,681 23	Kuentz Bros.
Bolton avenue.....	Quincy street.....	Woodland avenue.....	{ 1,232 460	{ No. 4..... No. 3.....	{ Brick..... Brick.....	5,802 04	John Garry.
Broadway brs.....			{ 47 40	{ No. 4..... No. 2.....	{ Brick..... Brick.....	439 05	Wm. J. Gawne.
Burton street.....	Walworth street.....	Clark avenue.....	{ 463 50 860	{ 6 ft. cir..... 5 ft. cir..... No. 15.....	{ Brick..... Brick..... Brick.....	18,544 12	Campbell Bros.
Broadway brs.....			{ 98 209	{ No. 3..... No. 4.....	{ Brick..... Brick.....	2,054 00	Wm. Baxter.
			{ 42 189	{ No. 3..... No. 2.....	{ Brick..... Brick.....		
			{ 304 123	{ 15 in..... 12 in.....	{ Pipe..... Pipe.....	1,167 90	Wm. Baxter.
Carran street.....	Bolton avenue.....	Oakdale street.....	739	No. 2.....	Brick.....	1,750 23	Kuentz Bros.

TABLE No. 3—Continued.

Street Name.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractors.
†Calumet street.....	Payne avenue.....	East Chestnut.....	67 342½ 324½ 348	20 in. cir... 18 in. cir... 15 in. cir... 12 in. cir...	Brick..... Pipe..... Pipe..... Pipe.....	\$ 1,360 87	Campbell Bros.
Chatham street.....	Ward street.....	Jersey.....	196	12 in. cir...	Pipe.....	231 80	Smith & Helm.
Champlain street.....	Ontario street.....	Seneca.....	446	No. 4.....	Brick.....	2,984 19	Wm. Eggers.
Chestnut street.....	Erie street.....	Muirson.....	703	No. 4.....	Brick.....	3,787 42	A. G. Hausman.
Clinton street.....	Hanover street.....	State.....	240	12 in.	Pipe.....	264 00	Smith & Helm.
Clifton street.....	St. Clair street.....	Superior.....	942	20 in. cir... No. 2..... 20 in. cir...	Brick..... Brick..... Brick.....	1,786 21 2,683 07	Smith & Helm. Smith & Helm.
Clifton street.....	Superior street.....	Payne avenue.....	780 383	No. 2..... 20 in. cir...	Brick..... Brick.....	2,085 43	Ford P. Beers.
Central avenue.....	Lincoln avenue.....	Alanson.....	439	No. 5.....	Brick.....	1,787 24	Wm. Eggers.
Congress street.....	Woodland avenue.....	139 ft. N. of Remington	540	No. 3.....	Brick.....	394 80	Ford P. Beers.
Cross street.....	Hill street.....	Berg.....	248	15 in.	Pipe.....	708 73	Kuents Bros.
Cross street.....	Hill street.....	Broadway.....	288	No. 2.....	Brick.....	699 00	Campbell Bros.
†Crawford place.....	Crawford road.....	West end of said street.	46 228 238	18 in. 15 in. 12 in.	Pipe..... Pipe..... Pipe.....	1,764 35	Wm. Eggers.
Dolloff street.....	McBride street.....	Easterly end.....	810	No. 2.....	Brick.....		

TABLE No. 3—Continued.

Street Names.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractors.
Detroit street.....	Center street.....	Kentucky	48 279 932 919 529 652 794 194 52	5 ft. cir... 4½ ft. cir... 4 ft cir... No. 9..... No. 7..... No. 5..... No. 4..... No. 2..... No 1.....	Pipe Brick..... Brick..... Brick..... Brick..... Brick..... Brick..... Brick..... Brick.....	\$7,046 24	Campbell Bros.
East Prospect street.....	East Madison avenue...	Giddings brook.....	470	20 in. cir..	Brick.....	1,166 84	Clements Bros.
East Prospect street.....	Lincoln avenue.....	Bolton avenue.....	28 1,220	No. 2..... No. 3.....	Brick..... Brick.....	3,548 14	Clements Bros.
Forest street.....	Kingsbury Run.....	Broadway	24 92½ 1,134½	4 ft. cir... 4 ft. cir... No. 10....	Iron pipe Brick..... Brick.....	19,276 99	Garry & Fahy.
Forman street.....	Broadway	Tod.....	118 674 602	No. 4 cir } No. 3 cir } No. 2 cir }	Brick..... Brick..... Brick.....	3,461 14	Helm & Lehman.

TABLE No. 3—Continued.

Street Name.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Gallup.....	Broadway	North end of street.....	{ 584 306	No. 2.....	Brick.....	\$ 2,298 63	Kuents Bros.
Hickox.....	Euclid avenue.....	Prospect.....	385	No. 2.....	Brick.....	4,688 83	Warren Farr.
High.....	Ontario.....	Miami alley.....	857	No. 4 C.....	Brick.....	6,734 07	Garry & Fahy.
Hancock.....	Jersey.....	Ward.....	410	12 in.....	Pipe.....	525 10	Thos. Wood.
*Holton avenue.....	East Madison avenue.....	Woodland Hills avenue.....	{ 1,566 375	No. 11 E) No. 8 C)	Brick.....	18,215 94	McCarthy & Sager.
Hough avenue.....	Dunham avenue.....	Kirk.....	491	20 in.....	Brick.....	1,435 58	Ford P. Beers.
†Homestead.....	Broadway.....	Spaford.....	317	12 in.....	Pipe.....	190 00	W. S. Tyler & Co.
Irving.....	Pittsburgh.....	400 ft. North.....	235	12 in.....	Pipe.....	271 45	T. L. & O. H. Lawne.
†Indianaola.....	Seelye avenue.....	Sawtell.....	401½	12 in.....	Pipe.....	460 12	Clements Bros.
Jefferson.....	University.....	Professor.....	{ 283 135	18 in..... 12 in.....	Pipe..... Pipe.....	554 67	A. G. Hausman.
Kennedy.....	Bolton avenue.....	Oakdale.....	692	15 in.....	Pipe.....	1,155 18	Mahon & Chabek.
Keys.....	East Madison avenue.....	Edwards.....	571	20 in. Cir.....	Brick.....	1,362 12	Clements Bros.
Kindsater.....	Wilson avenue.....	Lyons.....	676	20 in. Cir.....	Brick.....	1,709 59	Kuents Bros.
Knox.....	Branch sewer.....	.....	42	20 in. Cir.....	Brick.....	172 72	Clements Bros.
Lawn.....	(Jordan avenue.....	Ridge avenue.....	1,225	No. 3.....	Brick.....	3,846 40	Thos. Wood.

TABLE No. 3—Continued.

Street Name.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Lester.....	Gallup.....	Easterly end.....	199))	15 in..... No. 2.....	Pipe..... Brick.....	\$ 2,067 07	Kuents Bros.
Liberty.....	Detroit.....	Franklin avenue.....	468))	12 in..... 20 in. cir.....	Pipe..... Brick.....	502 22	Ford P. Beers.
Light.....	St. Clair.....	Varian.....	287))	20 in. cir..... No. 2.....	"..... ".....	1,725 13	Clements Bros.
Literary.....	University.....	Professor.....	382))	20 in. cir..... No. 4.....	"..... ".....	851 02	Ford P. Beers.
Literary.....	University.....	Herschel.....	497))	No. 4..... No. 2.....	"..... ".....	2,633 22	Reed & McDowell.
Lorain.....	Smith.....	Bradford.....	455))	No. 2..... No. 2.....	"..... ".....	1,066 68	Ford P. Beers.
Lyman.....	Superior.....	Payne avenue.....	1,280))	No. 2..... No. 2 cir.....	"..... ".....	3,137 38	Clements Bros.
Lyman.....	Payne avenue.....	Mason avenue.....	974))	No. 2 cir..... 15 in.....	"..... Pipe.....	2,379 14	Ford P. Beers.
Magnet.....	Broadway.....	Wilson avenue.....	497))	15 in..... 15 in.....	"..... ".....	667 75	A. G. Hausman.
Minerva.....	Hough avenue.....	North end.....	333))	15 in..... 20 in cir.....	"..... Brick.....	1,131 66	R. E. Albin.
Miami.....	Huron.....	Bolivar.....	292))	15 in..... 3 ft. cir.....	Pipe..... Brick.....	1,224 97	Wm. Eggers.
Michigan.....	Canal.....	Ontario.....	1,076))	3 ft. cir..... 18 in.....	"..... Pipe.....	6,124 05	Thos. Wood.
McKinstry.....	Herschel.....	Northerly.....	512))	18 in..... 20 in. cir.....	"..... Brick.....	790 65	A. G. Hausman.
Montgomery.....	Giddings avenue.....	Parker.....	530))	20 in. cir..... 12 in.....	"..... Pipe.....	1,119 25	Wm. Eggers.
Mona.....	Cemetery.....	Dike.....	257½))	12 in.....	".....	283 12	Clements Bros.

TABLE No. 3—Continued.

Street Name.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Myrtle court.....	Sawtell avenue..	Westerly	756	12 in	Pipe.....	\$ 552 40	T. L. & D. H. Gawne.
Ocean	Woodland avenue	Bushnell.....	937	15 in.	Pipe.....	1,499 39	A. G. Hausman.
†Olive court	Olive	Easterly	590	12 in.	Pipe.....	490 00	Thos. Wood.
Otis.....	Woodland avenue	Deil	548	15 in.	Pipe.....	1,050 22	T. L. & D. H. Gawne.
Platt	East Madison avenue.....	C. & P. R. R.....	797	No. 2.....	Pipe.....	1,917 79	Reed & McDowell.
Payne avenue brs.....	Payne avenue sewer.....	South line of Payne ave	129	No. 2.....	Brick.....	437 74	Kuentz Bros.
†Plymouth.....	Central avenue	Northerly	754½	15 in.	Pipe.....	807 50	Clements Bros.
Princeton	Linwood.....	Hough avenue	791	15 in.	Pipe.....	871 03	A. G. Hausman.
Quincy	East Madison avenue.....	Woodland Hills avenue..	3,725 2,220	No. 8..... No. 6.....	Brick..... Brick...}	41 645 75	Campbell Bros.
Ridge avenue.....	Clark avenue	Dennison	1,224 360 308 340 332	No. 6..... No. 5..... No. 4..... No. 3..... No. 2.....	Brick..... Brick... Brick... Brick... Brick...}	12,185 65	Fitzgerald & Baxter.
Russell avenue	Beecher avenue.....	Lexington avenue	322	20 in.	Brick.....	586 79	Ford P. Beers.
†Ruth	Cemetery	Dike.....	257	12 in.	Pipe.....	290 12	Clements Bros.

TABLE No. 3—Continued.

Street Name.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Seneca.....	Summit.....	Superior.....	{ 380 725 583 }	{ 5½ ft. cir. 5 ft. cir. 3¼ cir. }	{ Brick..... Brick..... Brick..... }	\$ 20,512 09	Dennert & Loypoldt.
†Smiley avenue.....	Superior.....	Star avenue.....	302	12 in.....	Pipe.....	243 60	Wm. Lehman.
Smith avenue.....	Broadway.....	Northerly end.....	461	No. 2.....	Brick.....	1,078 13	Kuentz Bros.
†South Genesee avenue.....	East Prospect.....	Euclid avenue.....	{ 382 280 }	{ 15 in. 12 in. }	{ Pipe..... Pipe..... }	1,062 80	Ford P. Beers.
South Woodland avenue.....	South Woodland sewer.....	So. line of So. Woodland.....	245	No. 2.....	Brick.....	1,025 44	Smith & Helm.
St. Clair.....	Erie.....	Ontario.....	1,541	No. 4.....	Brick.....	9,459 34	McCarthy & Sager.
St. Clair.....	Ontario.....	Seneca.....	490	No. 4.....	Brick.....	2,266 25	J P. O'Donnell.
Starkweather avenue.....	University.....	Felton.....	{ 1,248 629 }	{ No. 3. No. 2. }	{ Brick..... Brick..... }	4,891 76	Ford P. Beers.
†Tennis.....	Curtiss.....	Euclid avenue.....	760	12 in.....	Pipe.....	941 90	Clements Bros.
Walton avenue.....	Pearl.....	Pollock.....	{ 820 2,153 }	{ No. 2. No. 3. }	{ Brick..... Brick..... }	8,937 16	Ford P. Beers.
Wade avenue.....	Pearl.....	Scranton avenue.....	680	15 in.....	Pipe.....	881 38	A. G. Hausman.
Wade avenue.....	Pearl.....	Rhodes avenue.....	{ 1,240 1,011 }	{ No. 3. No. 2. }	{ Brick..... Brick..... }	6,850 24	Ford P. Beers.

TABLE NO. 3—Continued.

Street Name.	From.	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Waide Park avenue.....	Giddings avenue.....	Giddings brook.....	359	20 in. cir...	Brick.....	\$ 1,145 47	C. F. Schmidt.
Waring.....	Superior.....	Payne avenue.....	900	20 in. cir...	Brick.....	1,965 86	R. E. Albin.
†Woodridge.....	Kinsman.....	Wilson avenue.....	780	12 in.....	Pipe.....	1,000 00	Clements Bros.
Zoeter avenue.....	Dunham avenue.....	Giddings avenue.....	345	15 in.....	".....		
			1,182	No. 3.....	Brick.....	4,832 41	Smith & Helm.
Total.....		{ Brick sewer..... Pipe sewer..... Iron pipe sewer.....	58,234 15,479½ 72			\$ 317,272 40	
	Total.....		73,845.5 ft.	13.986 miles.			

† Built by private contract.

TABLE No. 4.
MISCELLANEOUS IMPROVEMENTS.

	Kind of Improvement.	Cost.	Contractor.
Armory.....	Removing rubbish after the fire.....	\$ 495 00	M. E. Kavanaugh.
Ackley avenue.....	Culvert.....	3,517 44	Mahon & Chabeck.
Burton street.....	Culvert cleaning.....	1,155 09	Wood Bros.
Cuyahoga street.....	Sewer outlet.....	1,095 31	Thos. Wood.
Cuyahoga river.....	Dredging.....	19,718 25	John Stang.
Catch basins.....	Repairs.....	1,769 97	Various.
Catch basins.....	Built.....	865 20	Various.
Cedar avenue bridge.....	Substructure and paving.....	1,579 54	Engle & Micoll.
Cedar avenue bridge.....	Superstructure.....	2,766 04	Variety Iron Works.
Central viaduct.....	Repairs near Seneca street.....	669 23	Variety Iron Works.
Center street bridge.....	Protection piles.....	931 14	G. H. Stang & Son.
Sewers.....	Repairs to manholes.....	573 58	Various.
Sewers.....	Repairs.....	9,633 04	Various.
Sewers.....	Cleaning.....	5,578 73	Various.
Sewer connections.....	Delinquent.....	576 10	Various.
*Swiss street bridge.....	Substructure.....	3,731 16	E. S. & C. E. Doolittle.

TABLE NO. 4—Continued.

	Kind of Improvement.	Cost.	Contractor.
Swiss street bridge.....	Superstructure.....	\$ 16,281 34	The King Bridge Co.
Swiss street bridge.....	Railing.....	2,526 79	National Iron and Wire Co.
Swiss street bridge.....	Sewer.....	311 00	Campbell Bros.
†-south Water street bridge.....	Substructure.....	8,210 77	Robt. Husband.
Seneca street bridge.....	Protection piling.....	907 25	C. H. Strong & Son.
†sidewalks	Delinquent.....	1,061 15	M. P. Platten.
Water connection... ..	Delinquent and moving back stop cock } boxes on account of whitening roadways... }	1,890 10	Various.
		\$ 86,454 62	

* Amount expended in 1893 to complete.

† Amount expended in 1893 not completed.

TABLE NO. 5.
IMPROVEMENTS UNDER CONTRACT AND IN PROGRESS. ESTIMATED COST TO COMPLETE THE SAME.

Name of Street.	From	To	Kind of Improvement.	Approximate Cost to Complete.	Contractor.
Barton.....	Lorain.....	Clark avenue.....	Paving.....	\$ 14,587 00	Kuentz & Burnett.....
Bolton avenue.....	E. Madison avenue.....	Woodland Hills avenue.....	Sewer.....	12,000 00	McCarthy & Seger.....
Cross.....	Broadway.....	N. curb line of Berg st.....	Paving.....	3,074 00	L. & J. F. Brennan.....
Central avenue.....	Willson avenue.....	C. & P. R. R. tracks.....	".....	17,314 00	J. L. & H. L. Sterling.....
Cuyahoga river.....	and Old River Bed.....		Dredging.....	22,000 00	John Stang.....
Frankfort.....	Seneca.....	Monumental Square.....	Repaving.....	1,720 00	Warren Scharf Asphalt Pav. Co.
(tensesse avenue.....	Waide Park avenue.....	Hough avenue.....	Paving.....	4,113 00	Peter Ruthenbecker.....
Hamilton street.....	Ontario.....	Wood.....	".....	4,100 00	J. L. & H. L. Sterling.
Kinsman.....	Willson avenue.....	E. L. Woodl'd Hills ave.....	".....	14,475 00	"
Logan avenue.....	Euclid avenue.....	Cedar avenue.....	".....	1 952 00	"
Logan avenue.....	Euclid avenue.....	Lamont.....	".....	3,715 00	"
Lighting streets.....	and Public Grounds.....			204,587 75	Various.
Monumental Square.....	Superior.....	East line of Square.....	Repaving.....	11,485 00	Warren Scharf Asphalt Pav. Co.
Miami alley.....	Huron.....	Bolivar.....	Paving.....	1,290 00	J. L. & H. L. Sterling.

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 5—Continued.

Name of Street.	From	To	Kind of Improvement.	Approximate Cost to Complete.	Contractor.
North Perry.....	St. Clair.....	Superior.....	Paving.....	\$ 5,450 00	J. L. & H. L. Sterling.
Oak Place.....	Euclid avenue.....	Prospect.....	".....	2,450 00	"
Payne avenue.....	Muirson.....	Willson avenue.....	".....	54,032 00	"
Seneca.....	Summit.....	St. Clair.....	Repaving.....	4,115 00	Northern Ohio Pav. & Con. Co.
Sidewalks.....			Delinquent.....	114 00	M. P. Platten.
South Water.....	Bridge.....		Substructure.....	1,590 00	
South Water.....	".....		Superstructure.....	4,500 00	
St. Clair.....	Seneca.....	Water.....	Sewer.....	530 00	Clements Bros. Con. Co.
Wheller place.....	Central avenue.....	Eagle.....	Paving.....		Warren Farr.
Total.....				\$ 898,574 75	

TABLE No. 6.
 PROSPECTIVE IMPROVEMENTS FOR 1894. THE FIRST INSTALLMENT OF THE TAXES FOR
 SAME WERE DUE AND PAYABLE IN DECEMBER, 1893.

Ord.	Street.	From	To	How Improved.	Length in Feet.	Approximate Cost.
2679	Bright	Lake.....	St. Clair.....	Medina block paving.....	617	\$ 4,027 82
2742	Center.....	{ A point 5 ft. south of West } { street..... }	Cuyahoga River.....	{ Medina block paving, } { concrete foundation }	953	20,651 18
2853	Canal.....	Michigan	Seneca.....	Medina block paving.....	620	8,183 99
2501	Central avenue.....	C. & P. R. R	North line East Madison.....	Medina block paving.....	2,552	26,099 86
2743	Elm.....	West River.....	Old River.....	{ Medina block paving, } { concrete foundation }	1,998	41,304 25
2675	Merwin.....	{ North curb line of Superior } { street..... }	{ North curb line of Cen- } { ter street..... }	{ Medina block paving, } { concrete foundation }	959	21,032 60
2452	St. Clair	West line Willson avenue.....	Center Becker avenue.....	Medina block paving.....	3,950	64,633 71
3022	Woodland Hills avenue...	Fairmount.....	South line of Norman.....	Medina block paving.....	1,061	18,096 90
2463	Wason.....	St. Clair.....	L. S. & M. S. R. R.....	Medina block paving.....	1,392	27,162 02
3021	Pearl.....	{ South end Walworth Run } { bridge..... }	{ 320 feet southerly from } { Sackett street..... }	Medina block paving.....	6,122	72,384 31
					20,244	\$ 308,566 64

TABLE NO. 6—Continued.

Ord.	Street	From	To	How Improved.	Length in Feet.	Approximate Cost.
3020	Croton.....	East curb line of Jackson.....	West curb line of Case.....	Common Medina pavem't	3,235	\$ 32,583 43
3121	Columbus.....	Lorain.....	Nor. curb line of Brevier.....	Common Medina pavem't	1,583	19,784 10
2869	Fillmore.....	Pearl.....	West line Express.....	Common Medina pavem't	309	3,104 74
2868	Fall.....	Center.....	British.....	{ Common Medina pave- ment on foundation }	1,075	14,215 14
2871	Krauer alley.....	Merwin.....	Sanders alley.....	Common Medina pavem't	111	795 29
2878	Sanders alley.....	Leonard.....	German.....	Common Medina pavem't	279	1,773 34
2887	Adelbert.....	Euclid avenue.....	Murray Hill avenue.....	Brick pavement.....	6,652	\$ 72,256 04
3138	Bell avenue.....	Euclid avenue.....	Cedar avenue.....	Brick pavement.....	2,255	\$ 14,655 66
2881	Emmet.....	Marquardt.....	North end Emmet.....	Brick pavement.....	1,307	6,670 39
2506	Chestnut.....	Erie.....	Dodge.....	Brick pavement.....	1,556	6,143 72
3137	Crawford road.....	Hough avenue.....	Geneseo.....	Brick pavement.....	2,001	17,714 11
3120	Euclid alley.....	Brownell.....	Perry.....	Brick pavement.....	1,657	8,644 50
2541	Giddings avenue.....	Euclid avenue.....	Cedar avenue.....	Brick pavement.....	1,828	8,398 59
2559	Lincoln avenue.....	Cedar avenue.....	{ North curb line Quincy } street.....	Brick pavement.....	1,266	8,106 28
2672	Oakdale.....	Cedar avenue.....	Quincy.....	Brick pavement.....	2,326	15,896 35
2508	Osborn.....	Scovill avenue.....	Woodland avenue.....	Brick pavement.....	2,178	12,211 36
					1,150	7,382 73

TABLE No. 6—Continued.

Ord.	Street.	From	To	How Improved.	Length in Feet.	Approximate Cost.
3167	Short alley.....	Euclid avenue.....	Huron.....	Brick pavement.....	211	\$ 974 92
3168	Sixth avenue.....	Willson avenue.....	Norwood avenue.....	Brick pavement.....	1,600	8,226 42
					19,314	\$ 114,946 58
2819	Hilburn avenue.....	Euclid avenue.....	East Prospect.....	Asphalt pavement.....	775	\$ 8,285 02
2886	Bertram.....	Cedar avenue.....	Central avenue.....	(grade and curb.....	1,235	1,376 65
2538	Congress.....	South Woodland avenue.....	Woodland avenue.....	(grade and curb.....	192	524 29
2679	Courtland.....	Bridge.....	Lorain.....	(grade and curb.....	1,338	1,737 21
3106	Creighton.....	Perry.....	Chapel.....	(grade and curb.....	511	606 84
3118	Chamberlain.....	Giddings avenue.....	Parker.....	(grade and curb.....	628	684 58
2746	Gallup.....	Union.....	Regent.....	(graded.....	1,553	791 91
3119	Giddings avenue.....	Quincy.....	Woodland avenue.....	(graded and curbed.....	1,896	2,037 33
2712	Grant.....	Cedar avenue.....	Central avenue.....	(graded and curbed.....	1,100	1,136 17
2766	Hamilton.....	Dodge.....	Case avenue.....	(graded and curbed.....	6,013	9,568 15
2538	Haulet.....	Broadway.....	1,250 feet north.....	{ Graded, curbed and culvert.....	1,250	1,902 70

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 6—Continued.

Ord.	Street.	From	To	How Improved.	Length in Feet.	Approximate Cost.
2819	Harrison.....	Hill	400 feet south.....	{ (Grade, curb and pave) (gutters.....) }	400	\$ 1,663 10
2854	Jay	Pearl	Jersey	Grade and curb.....	1,125	1,746 25
2873	Lyon.....	St. Clair.....	488 feet north of Superior.....	Grade and curb.....	1,281	2,149 87
2874	Lennox	Clark avenue.....	C. C. C. & St. L. R'y.....	Graded.....	808	498 26
2711	Minnesota.....	St. Clair.....	Superior.....	(graded and curbed.....)	700	1,079 12
3165	Oliver	St. Clair	Superior.....	(graded and curbed.....)	675	945 06
2885	Princeton	Hough avenue.....	Euclid avenue.....	(graded and curbed.....)	1,964	2,739 91
3211	Pallister avenue.....	Chard	Fleet	(graded.....)	1,452	714 52
3384	Richland avenue.....	Central avenue.....	Quincy.....	(graded and curbed.....)	951	1,024 62
3178	Sheridan.....	North line Carpenter	475 feet southerly.....	{ (graded and culvert) { from Roland street..... }	2,669	2,696 36
2505	Scott.....	Detroit	South ond Scott.....	Graded and culvert.....	2,791	3,201 98
					30,512	\$ 38,825 00

TABLE No. 6—Continued.

Brick paving.....	3.66 miles.	\$114,946 58
Block paving.....	3.84 miles.	303,566 64
Common paving.....	1.26 miles.	72,256 04
Asphalt paving.....	0.15 miles.	8,285 02
	8.91 miles.	\$498,054 28
Grading and curbing.....	5.77 miles.	\$ 39,825 00
Total.....	14.68 miles.	\$577,879 28

TABLE No. 7.
SEWERS TO BE CONSTRUCTED DURING 1894.

Name of Street.	From	To	Estimated Cost.
Ackley court.....	Meyer.....	Alley 700 feet west.....	\$ 1,235 00
Adelbert.....	N. Y. C. & St. L. Ry.....	Murray Hill.....	1,435 00
Aumer court.....	Wade Park.....	Southerly.....	588 00
Brainard avenue.....	Seranton avenue.....	Jennings avenue.....	5,290 00
Bertram.....	Central avenue.....	Quincy.....	3,165 00
Bailey.....	Burton.....	Willett.....	3,842 00
Brown.....	Woodland avenue.....	Platt.....	1,412 00
Bayne.....	Waverly.....	Gordon avenue.....	1,370 00
College.....	University.....	Professor.....	772 00
Colgate.....	Ridge avenue.....	City limits.....	812 00
Central avenue.....	Lussenden.....	East Madison avenue.....	1,111 00
Cobleigh.....	Willson avenue.....	Easterly.....	639 00
Colgate.....	Gordon avenue.....	Ridge avenue.....	4,492 00
Cumberland.....	Oakdale.....	Woodland Hills avenue.....	5,717 00
Douglas.....	Payne avenue.....	Alley 480 feet south.....	4,273 00
Decker avenue.....	East Madison avenue.....	Genesee avenue.....	6,155 00
Dana.....	St. Clair.....	Superior.....	6,722 50

TABLE No. 7--Continued.

Name of Street.	From	To	Estimated Cost.
Davenport.....	Park.....	Briggs.....	\$ 5,869 00
Empress.....	Fillmore.....	Barber avenue.....	2,614 00
Edwards.....	Central avenue.....	Quincy.....	1,683 00
Everett.....	Payne avenue.....	Southerly.....	6,846 00
Emmet.....	Jefferson.....	Marquardt.....	1,187 50
Floyd.....	Jackson.....	Fleming alley.....	351 00
Fillmore.....	Pearl.....	Empress.....	1,827 00
Goldsmith court.....	Florence.....	Easterly.....	617 00
Goethe.....	Hamm.....	Blanche.....	1,964 00
Goulding avenue.....	Woodland avenue.....	South Woodland avenue.....	620 00
Hamm.....	Petrie.....	Doloff.....	4,798 00
Havard.....	Broadway.....	Woodland Hills avenue.....	8,515 00
Harlem.....	Willson avenue.....	Kirtland.....	2,963 00
Herschel.....	Literary.....	Soothan.....	7,679 00
Homer.....	Willson avenue.....	Brunswick.....	1,320 00
Hollister.....	Broadway.....	Track.....	1,962 00
Inverness.....	Becker avenue.....	Hodge avenue.....	1,491 00
Jefferson.....	University.....	Herschel.....	1,821 00
LeRoy place.....	Superior.....	Southerly.....	1,670 00

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 7—Continued.

Name of Street.	From	To	Estimated Cost.
Lookyear avenue.....	Hodge avenue.....	Becker avenue.....	\$ 6,660 00
Lake.....	Marquette.....	Case avenue.....	22,641 00
Mayflower.....	Woodland avenue.....	Orange.....	487 00
Meyer avenue.....	Pearl.....	Seranton avenue.....	2,452 00
Melrose avenue.....	East Madison avenue.....	Genesee avenue.....	3,650 10
Mead avenue.....	Broadway.....	Track.....	4,816 00
Melrose avenue.....	Giddings avenue.....	East Madison avenue.....	3,087 00
New.....	Garden.....	Quincy.....	1,683 00
Norwood avenue.....	St. Clair.....	Superior.....	7,335 00
Oregon.....	Oliver.....	Perry.....	1,749 00
Outhwaite avenue.....	Cemetery.....	Dyle.....	536 00
Perival.....	St. Clair.....	Superior.....	4,140 00
Princeton.....	Hough avenue.....	Euclid avenue.....	4,562 00
Prairie.....	Pearl.....	Seranton avenue.....	2,025 50
Randolph.....	Dolloff.....	Blanche.....	1,424 00
Streator avenue.....	Cedar avenue.....	Quebec.....	6,245 00
Sheriff.....	Bollivar.....	Eagle.....	3,453 00
Slator avenue.....	Seovill avenue.....	Outhwaite.....	725 00
Selden avenue.....	Clark avenue.....	Storer avenue.....	12,285 00

TABLE No. 7—Continued.

Name of Street.	From	To	Estimated Cost.
Sage.....	Lomin.....	Dennison.....	\$ 2,171 00
Solon.....	Trumbull.....	Warren.....	915 00
Wason.....	Lake Erie.....	Superior.....	22,267 00
Woolsey.....	St. Clair.....	".....	14,379 50
Worley.....	Broadway.....	Spafford.....	713 00
Wood.....	Summit.....	St. Clair.....	2,521 00
Wade avenue.....	Rhodes avenue.....	500 feet westerly.....	775 00
Weckerling.....	Hamm.....	Blanche.....	2,806 00
Wire.....			
UNFINISHED SEWERS.			
Holton avenue.....	East Madison avenue.....	Woodland Hills avenue.....	23,128 00
St. Clair.....	Seneca.....	Water.....	4,263 00
Total.....			\$262,194 00

TABLE NO. 8.
 IMPROVEMENTS FOR WHICH APPROXIMATE ESTIMATES HAVE BEEN MADE, RESOLUTIONS
 AND ORDINANCES PREPARED IN ORDER TO ASSESS A TAX.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Adelbert.....	Euclid avenue.....	Murray Hill avenue.....	Pave.....	\$ 14,855 06
Arlington.....	Cedar avenue.....	Scovill avenue.....	Pave.....	16,572 55
Bertram.....	Cedar avenue.....	Central avenue.....	(grade and curb.....	1,376 65
Bell avenue.....	Euclid avenue.....	Cedar avenue.....	Pave.....	6,303 53
Bell avenue.....	Cedar avenue.....	1,671 ft. south.....	Pave.....	8,045 70
Bolton avenue.....	Quincy.....	South Woodland avenue.....	Pave.....	21,274 35
Brownell.....	Euclid avenue.....	South line of Scovill avenue.....	Repare.....	27,041 92
Brownell.....	Woodland avenue.....	South line of Scovill avenue.....	Pave.....	12,824 91
Brown.....	Woodland avenue.....	Platt.....	Grade and curb.....	1,011 67
Chamberlain.....	Giddings avenue.....	Parker.....	(grade and curb.....	604 88
Clifton.....	Payne avenue.....	Kelley.....	Grade and curb.....	887 50
Cornell.....	1,111 ft. southeast of Euclid ave.....	Murray Hill avenue.....	{ Grade and curb, pave and } gutter.....	2,081 99
Crawford road.....	Hough avenue.....	Genesee avenue.....	Pave.....	8,644 59
Creighton.....	Perry.....	Chapel.....	(grade and curb.....	606 94

TABLE No. 8—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Croton.....	Jackson.....	Case avenue.....	Pave.....	\$ 32,583 43
Dayton.....	Payne avenue.....	Kelley.....	Grade and curb.....	740 55
Dexter place.....	Clinton.....	Franklin place.....	Pave.....	1,803 43
Fillmore.....	Pearl.....	Empress.....	Pave.....	3,104 74
Hiddings avenue.....	Quincy.....	Woodland avenue.....	Grade and curb.....	2,037 35
James.....	South Water.....	Merwin.....	Repave.....	7,427 07
Jay.....	Pearl.....	Jersey.....	Grade and curb.....	1,746 35
Jones.....	Broadway.....	Harvard.....	Grade and curb, cinder.....	3,368 09
Kelley.....	Case avenue.....	Buckeye.....	Grade and curb.....	1,869 63
Kennedy.....	Bolton avenue.....	Oakdale.....	Grade.....	273 31
Kennedy.....	Woodland Hills.....	Oakdale.....	Grade and gutter paving.....	2,950 00
Kramer alley.....	Merwin.....	Sanders alley.....	Pave.....	795 29
Lincoln avenue.....	Quincy.....	Woodland avenue.....	Pave.....	12,940 07
Lyon.....	St. Clair.....	488 ft. north of Superior.....	Curb.....	1,408 05
Oliver.....	St. Clair.....	Superior.....	Grade and curb.....	945 06
Park place.....	St. Clair.....	Rockwell.....	Pave.....	3,367 51

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 8—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Pallister.....	Fleet.....	Chard.....	Grade.....	\$ 714 52
Phelps.....	Payne avenue.....	St. Clair.....	Grade and curb.....	2,350 04
Princeton.....	Euclid avenue.....	Hough avenue.....	Grade and curb.....	2,739 91
Quincy.....	Willson avenue.....	Giddings avenue.....	Pave.....	44,327 09
Quincy.....	Giddings avenue.....	Bolton avenue.....	Pave.....	45,158 46
Randall.....	Lorain.....	Bridge.....	Pave.....	5,403 58
Richland.....	Central avenue.....	Quincy.....	Grade and curb.....	1,024 62
Sanders alley.....	Leonard.....	German.....	Pave.....	1,777 34
Scranton avenue.....	Clark avenue.....	City limits.....	Pave.....	51,797 60
Sheridan.....	Carpenter.....	2969 feet southerly.....	Grade.....	2,086 36
Short alley.....	Euclid avenue.....	Huron.....	Pave.....	974 92
Sixth avenue.....	Willson avenue.....	Norwood avenue.....	Pave.....	8,228 42
Sibley.....	Perry.....	Hayward.....	Pave.....	15,880 12
St. Clair.....	Willson avenue.....	Becker avenue.....	Pave.....	64,633 71
St. Clair.....	Becker avenue.....	Ansel avenue.....	Pave.....	20,067 49
Star avenue.....	East Madison avenue.....	East End avenue.....	Grade and curb.....	2,966 30

TABLE No. 8—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Sterling avenue.....	Cedar avenue.....	Woodland avenue.....	Pave.....	\$ 22,447 67
Sterling avenue.....	Hamilton.....	Euclid avenue.....	Pave.....	34,445 18
Superior.....	Wilson avenue.....	Ansel avenue.....	Pave.....	86 084 02
Water.....	St. Clair.....	Superior.....	Repave.....	17,029 73
Wason.....	St. Clair.....	L. S. & M. S. Ry.....	Pave.....	27,162 02
Woodland Hills.....	Fairmount.....	South line of Norman.....	Pave.....	19,098 90
Total.....				\$ 676,255 73

TABLE No. 9.
SURVEYS MADE IN 1893.

Street.	From	To
Alley	Brookfield.....	Glenn Park.
Alley	W. line Walton Bros. & Hicks' allotment.....	East line of same.
Alley	W. line Walton Bros. & Hicks' allotment.....	East line of same.
Alley	Short.....	Center.
Alley (between Harrison and Commercial)	Hill.....	West.
Alley (east of Sheriff).....	Prospect.....	Huron.
Alley (east of Merwin).....	West.....	Center.
Aetna.....	Macedonia.....	Broadway.
Alum.....	Clark avenue.....	Storer avenue.
Aburn.....	Jennings avenue	E. L. O. L. No. 71.
B street.....	North line R. & P. allotment.....	D street.
Beaumont.....	Wade Park avenue.....	Decker avenue.
Becker avenue.....	E. Madison avenue.....	St. Clair.
Beecher avenue.....	Russell avenue.....	Giddings avenue.
Birch.....	North line li. & R. allotment.....	Lorain.

TABLE No. 9—Continued.

Street.	From	To
Bona.....	Norwood.....	E. Madison avenue.
Branch avenue.....	Jennings avenue..	Merchant avenue.
Bridge.....	Scott ..	Taylor.
British.....	Merwin.....	Columbus.
Broadway ..	Harvard.....	Miles Park.
Broadway (widening).....	Walker.....	Miles Park.
Brooker.....	Central avenue ..	Cedar avenue.
Brookfield.....	Euclid avenue.....	Anglo.
Brooklyn avenue.....	Daisy avenue.....	Trowbridge avenue.
Brooklyn.....	Meyer avenue.....	Trowbridge avenue.
Brooklyn.....	Woodbridge avenue ..	Daisy avenue.
Canal.....	Seneca.....	South.
Canal.....	Harrison.....	Anglo at N. Y. C. & St. L.
Cedar avenue.....	Glenwood.....	W. line M. L. Stark's allotment.
Cedar avenue.....	Grant.....	William.
Cedar avenue.....	Greenwood.....	Sterling avenue.
Cedar avenue.....	Giddings avenue ..	E. Madison avenue.
Cedar avenue.....	Bridge over Doan Brook.....	

TABLE NO. 9—Continued.

Street.	From	To
Center.....	West river.....	Columbus.
Center.....	Merwin.....	West.
Center street bridge.....	Location of east approach.....	
Center street bridge.....	Location of buildings, etc.....	
Central avenue.....	Wilson avenue.....	Baden.
Central avenue.....	Giddings avenue.....	East Madison avenue.
Central avenue.....	Sterling avenue.....	(Greenwood.
Central avenue.....	Grant.....	William.
Central avenue.....	Linden.....	Harper.
Central avenue.....	Fire engine house lot.....	
Central avenue.....	Police station lot.....	
Central viaduct.....	Jennings avenue.....	Tracy.
Chestnut.....	Erie.....	Dodge.
Clara.....	White.....	Luther.
Clark avenue.....	Fire engine house lot.....	
Clark avenue.....	Intersection with Pearl.....	
C. C. C. & St. L. R. R.....	(Location track.) Burton.....	645 ft. westerly.

TABLE No. 9—Continued.

Street.	From	To
Cliff	Jennings avenue.....	Scranton avenue.
Commercial.....	Hill	Canal.
Courtland.....	Detroit.....	Lorain.
Cross	Hill	Canal.
Cuyahoga river, east side.....	Seneca street bridge.....	Upper Seneca street bridge.
Cuyahoga river, west side.....	Seneca street bridge.....	Upper Seneca street bridge.
Cuyahoga river, west side	Dock line, given at.....	N. Y. L. E. & W. R. R.
Dare.....	North line B. & R. allotment.....	Lorain.
Decatur alley.....	Central avenue.....	Alley.
Decker avenue	East Madison avenue.....	Seedle.
Dexter place.....	Clinton.....	Circle.
Dickens	Rockland.....	Woodland Hills avenue.
Dock line, (west side river).....	Central way.....	Mahoning.
Dock line, (west side river).....	400 north to 400 south.....	Of Short.
Dock line, (west side river).....	Jefferson.....	N. Y. P. & O. R. R.
Duke.....	Courtland.....	Birch.
East Prospect.....	Willson avenue.....	2nd angle east of Willson.

TABLE NO. 9—Continued.

Street.	From	To
East Madison avenue.....	Euclid avenue	Hough avenue.
East Madison avenue.....	Wade Park avenue.....	Redell.
East Madison avenue.....	Bonna.....	Edna.
East Madison avenue	Central avenue	Cedar avenue.
East River.....	At Intersection	With Front.
Edgewood place	Euclid avenue.....	North end.
Edna	Norwood	East Madison avenue.
Erie	Superior.....	Huron.
Euclid avenue.....	Cornell	Cemetery.
Euclid avenue.....	Sheriff.....	Erie.
Euclid avenue.....	West line O. L. 400	Brookfield.
Fairmount	Euclid avenue	Stark avenue.
Fairmount.....	Highland	Woodland Hills avenue.
Fall	British.....	Center.
Forest	Woodland avenue	S. line 10 A lots.
Fourth avenue.....	Willson avenue.....	Second avenue.
French	Winter	Merwin.

TABLE No. 9--Continued.

Street.	From	To
Frontier	Alum	Prim.
Geneee avenue	Hough avenue	North.
Geneee avenue	Euclid avenue	Hough avenue.
German	Winter	Merwin.
Glen Park place	Euclid avenue	North end.
Glenwood	Cedar avenue	Highland.
Hiddings avenue	C. & P. R. R.	Quincy.
Grant	Cedar avenue	Central avenue.
Greenwood	Sibley	Central avenue.
Harper	Scovill avenue	Central avenue.
Harrison	Hill	Canal.
High	Ontario	Alley.
Highland	Fairmount	Glenwood.
Hill	Central viaduct	S. line S. S. Stone's allotment.
Hodge avenue	Superior	St. Clair.
Huron	Canal	Sheriff.
Huron	Erie	Ontario.

TABLE No. 9—Continued.

Street.	From	To
Jennings avenue.....	Culvert over Walworth Run.....	Cliff.
" ".....	Fairfield.....	Branch avenue.
" ".....	Starkweather avenue.....	Dickens.
Kingsbury avenue.....	Kinsman.....	Woodland Hills avenue.
Kinsman.....	Herald.....	Sanders alley.
Kramer alley.....	Merwin.....	Winter.
Leonard.....	".....	Woolsey.
Lockyear avenue.....	Becker.....	Guernsey.
Lorain.....	Taylor.....	Trowbridge avenue.
Louis.....	Meyer avenue.....	North End.
Luscenden.....	Quincy.....	St. Clair.
Malden.....	Donald.....	Woodland Hills avenue.
Manor.....	Rockland.....	Rhodes avenue.
Marvin avenue.....	Pearl.....	South line J. S. Hartzell allotment.
Merchant avenue.....	Kenilworth.....	Superior.
Merwin.....	British.....	High.
Middle.....	Prospect.....	

TABLE No. 9—Continued.

Street.	From	To
Miles Park.....	Broadway.....	Miles Park avenue.
Minnie.....	Hodge avenue.....	West End.
N. Y. C. & St. L. R. R.....	Grand avenue.....	Wilson avenue.
N. Y. L. E. & W. R. R.....	C. C. C. & St. L. R. R.....	670 feet easterly.
".....	Location of tracks.....	Near Walworth Run.
N. Perry.....	Superior.....	St. Clair.
Norwood.....	Edna.....	Bouma.
Oak place.....	Euclid avenue.....	Prospect.
Olive court.....	Olive.....	East End.
Olive.....	Euclid avenue.....	Hough avenue.
Omega.....	Forest.....	Easterly end.
Ontario.....	Superior.....	Huron.
".....	Intersection with Monumental court.....	Woolsey.
Original lot line.....	(S. of O. L. 348) Becker avenue.....	(Hlenwood.
".....	West line of Stark allotment.....	Scovill avenue.
Osborn.....	Woodland avenue.....	Prairie.
Pearl.....	Kinkel.....	

TABLE NO. 9—Continued.

Street.	From	To
Petrie.....	Guy.....	Chard (Greenwood.)
Pine.....	Sterling avenue.....	Location of lines.
Pittsburgh.....	Extension.....	South line of O. L. No. 67.
Pleasant.....	Sackett.....	South end.
Plymouth.....	Cedar avenue.....	Scranton avenue.
Prairie.....	Pearl.....	Storer avenue.
Princeton.....	Clark avenue.....	North line O. L. 399.
Prospect.....	Euclid avenue.....	Eric.
Quincy.....	Ontario.....	East line of P. Bieger allotment.
Quincy.....	North line of C. E. French allotment.....	W. L. Bower & Brack allotment.
Redell.....	Lincoln avenue.....	Seedle.
Reservoir lot.....	West Madison avenue.....	
Rhodes.....	On Franklin avenue.....	Daisy avenue.
Rockland.....	Woodbridge avenue.....	Kinsman.
Rockwell.....	Mt. Auburn.....	West line Public Square.
Sackett.....	Wood.....	West line original lot 67.
	Brooklyn.....	

TABLE No. 9—Continued.

Street.	From	To
Sanders alley.....	German.....	Leonard.
Sawyer.....	Miles Park.....	Walker.
Scott.....	Detroit.....	South end.
Scovill avenue.....	Linden.....	Scovill court.
Scovill avenue.....	Osborn.....	Putnam.
Scranton avenue.....	At angle north of	Fairfield.
Scranton avenue.....	Central Viaduct	Angle N. Y., L. E. & W. R. R.
Scranton avenue.....	Cuyahoga River.....	Angle at L. E. & W. R. R.
Scranton avenue.....	At culvert at.....	Walworth Run.
Second avenue.....	Fifth avenue.....	Central avenue.
Seneca.....	Middle Seneca street bridge.....	Upper Seneca street bridge.
Sheriff.....	Euclid avenue.....	Huron.
Short.....	Columbus.....	Cuyahoga River.
South Water.....	James.....	Center.
South Water street bridge.....	Location of building.....	
South Water street bridge.....	Location of old abutments.....	
South Water street bridge.....	Lines given for masonry.....	

TABLE No. 9—Continued.

Street.	From	To
South Water street bridge.....	Measurements for plans.....	
South Water street bridge.....	Location of walls.....	
Spruce.....	Center.....	Elm.
Stark avenue.....	Fairmount.....	Cedar avenue.
Starkweather avenue.....	Jennings avenue.....	East line original lot 71.
St. Clair.....	Belden.....	McHenry.
St. Clair.....	Wason.....	Phelps.
St. Clair.....	Becker avenue.....	Ansel avenue.
Stearns.....	Cedar avenue.....	Glenwood.
Sterling avenue.....	Central avenue.....	Cedar avenue.
Storer avenue extension.....	West line O. L. 67.....	Pleasant.
Storer avenue extension.....	Gordon avenue.....	150 feet east of Alum.
Streator avenue.....	Intersection with.....	Fairmount.
Superior.....	Ontario.....	Erie.
Superior.....	East Madison avenue.....	Woolsey.
Superior street viaduct.....	Pearl.....	Washington.
Theresa.....	Wood.....	Erie.

TABLE No. 9—Continued.

Street	From	To
Trowbridge avenue	Pearl	Seranton avenue.
Tustin	Forest	Easterly end.
Valley R. R. tracks at	South Water	
Wade Park avenue	Genesee avenue	East line Decker allotment.
Walker	Broadway	Sawyer.
Walworth Run	Location Burton	Junction.
Walworth Run	Location of culvert	At Alum.
Walworth Run	Location of culvert	At Burton.
Walworth Run	Location of culvert	At Junction.
Walworth Run	Location of culvert	At Jennings.
Walworth Run	Location of culvert	At N. Y. L. E. & W. R. R.
Walworth Run	Valley, location of	L. Schlater's pond.
Walworth Run	Seranton avenue	N. Y. L. E. & W. R. R.
Walworth Run	N. Y. L. E. & W. R. R.	Cuyahoga river.
West	Merwin	Center.
West River	Detroit	Angle at Viaduct.
Whiskey Island	{ West River	West Government pier.
	{ Location of shore	

TABLE No. 9—Continued.

Street.	From	To
Whiskey Island.....	West River street (location tracks).....	Railroad bridge.
Whiskey Island.....	(Location original tangent line) West River street..	Railroad bridge.
Whiskey Island.....	(Location buildings north of main tracks).....	Railroad bridge.
Wilbur.....	Stark avenue.....	West line M. Roy's allotment.
William.....	Cedar avenue.....	Central avenue.
Wilson avenue.....	Kinsman.....	South line of O. L. 328.
Winter.....	Columbus.....	French.
Woodbridge avenue.....	Brooklyn avenue.....	West line of O. L. 66.
Woodbridge avenue.....	Rhodes.....	Pearl.
Woodland Hills avenue.....	Manor.....	Kinsman.
Woodland Hills avenue.....	Putnam.....	Osborn.
Woodridge avenue.....	Wilson avenue.....	Manor street angle.
Woolsey avenue.....	Superior.....	St. Clair.

TABLE No. 10.
 PLATS OF SUBDIVISIONS, ETC.. EXAMINED AND REPORTED UPON BY THE CHIEF ENGINEER IN 1893, BEFORE APPROVAL BY THE COUNCIL, SHOWING DATE OF APPROVAL AND TIME WHEN FILED IN COUNTY RECORDS.

Name.	Date of Approval.	County Records.		
		Date Filed.	Vol.	Pg.
Alley, Clark to Kinkel, through sublots 1 to 6 inclusive of Meyer & Holmden's allotment.....	August 21.....	Jan. 11.....	20	10
Bartlett, John, subdivision of part of O. L. 386, Newburgh.....	August 14.....	August 17.....	19	26
Bauer, Sin on, subdivision of part of O. L. 375, East Cleveland Township.....	May 8.....	May 9.....	19	18
Beckman, The L., re-subdivision of subplot 6 in John Remington's allotment, in O. L. 416, Newburgh.....	September 25.....	September 27.....	20	3
Broadway, part of across sublots 21-24, Newburgh Village allotment.....	November 27.....	June 1, '94.....	20	1
Chapple, F. J., subdivision of part of O. L. 328, Newburgh Township.....	July 24.....	July 31.....	19	30
Cobb, Bradley-Wick, subdivision of part of O. L. 327.....	November 6.....	November 10.....	20	4
Compton, Chas., heirs of, subdivision of part of O. L. 410, East Cleveland Township.....	June 12.....	May 28, '94.....	20	27
Crawford & Parmelee, re-subdivision of part of Morison & Massie's re-subdivision of J. H. Hardy's subdivision in O. L. 345, East Cleveland.....	August 28.....	August 31.....	19	21
Curtiss, Ambler & Johns n, subdivision of part of O. L. 378 and 386, East Cleve. and Township.....	September 11.....	September 25.....	16	10
Davis, C. W., re-allotment of sublots 222-227 and 235-239 of J. H. Sargent allotment O. L. 34, Brooklyn.....	May 15.....	May 17.....	19	19
Decker, James, subdivision of part of O. L. 345, East Cleveland.....	November 13.....	November 14.....	20	10
Ecels, Mary Witt, subdivision of part of original 10 acre lot 88.....	March 27.....	May 15.....	19	19
Hill, Eliza A., re-allotment of part of south line No. 32 of J. P. Hill's allotment O. L. 53, Brooklyn Tp.....	July 3.....	July 12.....	19	24

TABLE NO. 10—Continued.

Name.	Date of Approval.	County Records.		
		Date Filed.	Vol.	Pg.
Jones, W. E., et al., re-subdivision of part of lot 14 of G. Burke subdivision; part O. L. 315 and 455, Newburg.	July 3.....	July 7	19	27
Koch, (Geo., heirs of, allotment of part of 10 31-100 acres in O. L. 342 and 391.....	September 25..	October 31.....	20	14
Kuchinka, The, re-subdivision of sublots 37 and 38 and part S. L. 36 of G. Watkins allotment O. L. 336-339, East Cleveland.....	June 26.....	.....	.....	.....
Latimer, Jay E., re-subdivision of Trustees of St. Mary's Orphan Asylum's re-subdivision in O. L. 331 and 332, Newburgh.....	July 31.....	September 11..	19	29
McIntosh, Agnes, et al., subdivision of part of Block A and re-allotment of S. L. 111 to 119 in original 10-acre lots 126 and 127.....	July 31.....	.....	.....	.....
Olive Court, The, subdivision of part of O. L. 357, East Cleveland Township.....	March 20.....	March 21	19	14
Phillips, The, subdivision of part of O. L. 386 and 387, East Cleveland Township.....	May 1.....	May 6.....	19	23
Rieley & Morison, subdivision of part of E. Ackley's allotment of part of O. L. 68, Brooklyn Township.....	March 20.....	April 14.....	19	15
Sawyer street and Ded., dedication of Sawyer, Upton and George streets in O. L. 448, Newburgh.....	July 24.....	.....	.....	.....
Schatzinger & Tromaine, subdivision of part of O. L. 337, East Cleveland.....	November 20..	November 24..	20	10
Sell, Geo., re-subdivision of part of J. H. Hardy's subdivision of part of O. L. 345, East Cleveland Township	April 10.....	April 11.....	19	11
Southern, L. M., dedication of Commonwealth and Van Ness avenues and Stanley and Gale streets.....	April 4.....	April 6.....	19	20
Tettlebach, Peter, subdivision of part of O. L. 27, Brooklyn Township.....	August 28.....	.....	.....	.....
Van Tine & Chadwick, subdivision of part of O. L. 389.....	October 30.....	November 11..	20	7

TABLE No. 11.
HOUSE NUMBERING MAPS MADE AND NUMBERS ASSIGNED IN 1893.

Street.	From	To	Distances in Feet.	Numbers of Houses.	Numbers Put Up.
Alanson.....	Quincy.....	Cedar.....	2,230	42	43
Bancroft.....	Warner.....	City limits.....	790	3	3
Beechwood.....	Quincy.....	Cedar avenue.....	2,280	96	96
Hartlett.....	Harbor.....	East End.....	390	15	17
Bridge.....	Hurd.....	Browning.....	9,012	288	286
Catawba.....	Croton.....	End.....	320	15	14
Commonwealth avenue.....	Gale.....	Stanley avenue.....	2,160	56	56
DeForest.....	N. Y. C. & St. L. R. R.....	Cedar avenue.....	440	9	11
Erin avenue.....	Pearl.....	Pollock.....	3,020	85	85
Euclid avenue.....	Erie.....	Lakeview avenue.....	26,808	451	496
Fairview avenue.....	Mayfield.....	Murray Hill avenue.....	1,310	15	15
Force.....	Turney avenue.....	City limits.....	2,700	9	10
Gale.....	Genesee avenue.....	Marcy avenue.....	770	6	6
Gordon avenue.....	Storer avenue.....	L. S. & M. S. R. R.....	10,015	143	137
High.....	Ontario.....	Sheriff.....	469	17	23

TABLE NO. 11—Continued.

Street.	From	To	Distances in Feet	Numbers of Houses.	Numbers Put Up.
Hope	Higgins.....	Clark avenue.....	2,110	46	46
Indiana	Marcelline avenue.....	Ottawa.....	1,080	13	13
Lester	Gallup.....	End.....	940	50	52
Lindus	Wade Park avenue.....	N. End.....	890	27	27
Mapletree	Warner road.....	City limits.....	1,252	12	12
Mather	Wade Park avenue.....	Ansel avenue.....	1,750	21	20
Maud	St. Clair.....	Crumb.....	975	31	30
Mayfield	Kent road.....	Old city limits.....	3,210	17	17
Montrose	Wade Park avenue.....	S. End.....	375	14	14
Murray Hill avenue	Cedar avenue.....	Mayfield.....	3,740	34	34
McCurdy	S. Woodland avenue.....	Holton avenue.....	915	20	20
Norton	Lorain.....	N. End.....	795	9	9
Perkins avenue	Sterling avenue.....	Buckeye.....	1,680	17	18
Petrie	Broadway.....	Fleet.....	6,087	135	140
Poland	Colley.....	Warsaw.....	400	12	12
Portland	Kennard.....	Willson avenue.....	1,060	45	45
Public Square	.....	.....	2,587	30	74

TABLE No. 11—Continued.

Street.	From	To	Distances in Feet.	Numbers of Houses.	Number Put Up.
Rock	Catawba	End	440	22	19
Roy	Woodland Hills avenue	City limits	1,675	37	37
Rosewood	Warner road	City limits	930	13	14
Sanford	Woodland avenue	End	950	29	31
Scranton avenue	River	City limits	13,420	199	188
South Genesee avenue	East Prospect	Euclid avenue	780	5	4
Stanley avenue	Genesee avenue	Marcy avenue	800	14	15
Trowbridge avenue	Scranton avenue	Rhodes avenue	3,120	60	61
Van Ness avenue	Gale	Stanley avenue	2,160	51	51
Vergennes	Mound	Fleet	1,550	44	45
Vineyard avenue	Warner road	City limits	1,065	17	15
Wabash	Kingsman	Trenton	752	26	24
Woolsey	St. Clair	Superior	3,800	33	35
Total			124,012	2,333	2,320

TABLE No 11—Continued.

Total number of miles.....	2,352	Number of Nos. put on these streets.....	2,320
Total number assigned being one for each 20 feet front.....	12,401	Number of Nos. assigned in office to citizens.....	55
Total number of buildings on these streets.....	2,333	Total number of Nos. assigned and put up.....	2,375

TABLE No. 12.
 OWNERSHIP AND FRONTAGE MAPS MADE IN 1893,
 FOR GRADING, PAVING AND SEWERS.

Street.	From	To	Improvement.	Length in Feet.
Aumer court ..	Wade Park avenue.	Southerly end.	Sewer.....	340
Ackley court.....	Meyer avenue.....	Southerly end.....	Sewer.....	1,100
Abram.....	Mentor.....	Castle avenue.....	Sewer.....	518
Adelbert.....	Euclid avenue ..	Murray Hill avenue ..	Pave.....	400
Adelbert.....	N. Y. C. & St. L. R'y.....	Murray Hill avenue ..	Sewer.....	425
Brevier.....	Scranlon avenue.....	580 ft. westerly ..	Sewer.....	525
Bolton avenue.....	Quincy.....	South Woodland avenue ..	Grade.....	2,570
Bright.....	Lake.....	St. Clair.....	Pave.....	620
Bazetta.....	Lorain.....	Evergreen.....	Sewer.....	900
Bright.....	Noble.....	Fountain.....	Sewer.....	620
Beechwood ..	Quincy.....	600 ft. northerly ..	Sewer.....	600
Bertran.....	Cedar avenue.....	Central avenue.....	Grade and curb.....	2,400
Brownell ..	Scovill avenue.....	Woodland avenue.....	Pave.....	910
Brownell ..	Euclid avenue.....	Scovill avenue.....	Repave.....	2,175
Bailey.....	Burton.....	Willett.....	Sewer.....	1,300
Brown.....	Woodland avenue.....	Platt.....	Sewer.....	760

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 12—Continued.

Street.	From	To	Improvement.	Length in Feet.
Brown	Woodland avenue	Platt.....	Grade and curb.....	760
Bell avenue.....	Cedar avenue.....	Kucild avenue.....	Pave.....	1,305
Burton.....	Clark avenue.....	Storer avenue.....	Sewer.....	2,675
Bell avenue.....	Cedar avenue.....	Southerly end of Bell avenue.....	Pave.....	1,675
Bayne.....	Waverly avenue.....	Gordon avenue.....	Sewer.....	990
Brooklyn.....	Clark avenue.....	Sackett.....	Sewer.....	2,300
Brooklyn.....	Sackett.....	Trowbridge avenue.....	Sewer.....	560
Central avenue.....	Lussenden avenue.....	E. Madison avenue.....	Sewer.....	350
Clark avenue.....	Jennings avenue.....	Cuyahoga river.....	Curb.....	6,000
Chamberlain.....	Parker.....	Hiddings avenue.....	Grade and curb.....	630
Crawford road.....	Genesee avenue.....	Hough avenue.....	Pave.....	1,730
Cumberland.....	Oakdale.....	Woodland Hills avenue.....	Sewer.....	1,500
Churchill.....	Donn.....	Parkwood.....	Sewer.....	1,625
Center.....	Detroit.....	Spruce.....	Sewer.....	1,200
Colgate.....	Ridge avenue.....	City limits.....	Sewer.....	500
College.....	University.....	Professor.....	Sewer.....	440
Clifton.....	Payne avenue.....	Kelley.....	Grade and curb.....	615
Creighton.....	Chapel.....	Perry.....	Grade and curb.....	510

TABLE NO. 12—Continued.

Street.	From	To	Improvement.	Length in Feet.
Cornell	1110 feet east of Euclid avenue	Murray Hill avenue	Pave gutters.....	2,550
Crawford place	Crawford	480 feet westerly	Sewer.....	485
Davis.....	Lomain.....	Evergreen	Sewer.....	861
Decker avenue	East Madison avenue.....	Genesee avenue	Sewer.....	2,100
Duane	Franklin avenue.....	Detroit.....	Sewer.....	830
Dayton	Payne avenue	Kelley.....	Grade and curb.....	550
Davenport.....	Canfield	Briggs.....	Grade and curb.....	2,650
Douglas.....	Payne avenue	480 feet south of Perkins avenue	Sewer.....	1,650
Dana	St. Clair	Superior.....	Sewer.....	950
Emmet	Literary	Jefferson	Sewer.....	900
Empress.....	Fillmore.....	Barber avenue	Sewer.....	1,010
East Prospect.....	Lincoln avenue	Bolton avenue.....	Sewer.....	1,350
Erie	Euclid avenue.....	Lake.....	Sewer.....	2,980
East Clark avenue.....	Petrie	Cuyahoga river	Curb.....	3,040
Eliza	Cedar avenue	Central avenue	Curb.....	1,650
Euclid avenue	Monroe.....	Old city limits	Sewer.....	1,450
East Madison avenue.....	Hough avenue	Superior	Pave.....	4,000
Edwards.....	Central avenue	Quincy	Sewer.....	840

TABLE No. 12—Continued.

Street.	From	To	Improvement.	Length in Feet.
Emmet	Jefferson	Marquardt	Sewer	700
Euclid avenue	N. Y. C. & St. L. R. R.	Sewer	Sewer	930
Fall	Center	British	Pave	1,100
Fillmore	Pearl	Empress	Sewer	300
Frank	Doan	Woodland Hills avenue	Sewer	1,475*
Floyd	Jackson	Fleming alley	Sewer	210
Finn	Colorado	Broadway	Sewer	750*
Goulding	Woodland avenue	South Woodland avenue	Sewer	480
Giddings avenue	Quincy	Woodland avenue	Curb	1,850
Genesee avenue	Euclid avenue	East Prospect	Sewer	660
Goethe	Hamm	Blanche	Sewer	950
Harvarl	Broadway	Woodland Hills avenue	Sewer	1,670
Heber place	Gordon avenue	Northerly end	Sewer	600
Hartzell court	Branch avenue	Alley	Sewer	245
Hill	Central avenue	Commercial	Sewer	400
Harrison	Hill	400 feet southerly	Sewer	400
Honestead	Broadway	Spafford	Sewer	400
Hamm	Petrie	Dollhoff	Sewer	1,400

TABLE No. 12—(continued).

Street.	From	To	Improvement.	Length in Feet.
Honor.....	Willson avenue.....	Brunswick.....	Sewer.....	685
Hollister.....	Broadway.....	Track.....	Sewer.....	1,110
Hough avenue.....	Willson avenue.....	East Madison avenue.....	Pave.....	5,000
Harvard.....	Marcelline avenue.....	Broadway.....	Sewer.....	2,980
Harvard.....	Marcelline avenue.....	Jones avenue.....	Sewer.....	1,230
Indianola.....	Seelye avenue.....	Sawtell avenue.....	Sewer.....	443
Jefferson.....	University.....	Herschel.....	Sewer.....	400
Jay.....	Pearl.....	Jersey.....	Sewer.....	1,125
Jay.....	Pearl.....	Jersey.....	Curb.....	1,125
Jones avenue.....	Harvard.....	Broadway.....	Curb and grade.....	1,300
James.....	Merwin.....	South Water.....	Repave.....	483
Kramer alley.....	Merwin.....	Sanders alley.....	Pave.....	87
Kennedy.....	Oakdale.....	Woodland Hills avenue.....	Grade.....	1,630
Kelly.....	Buckeye.....	Case avenue.....	Grade and curb.....	900
Lennox.....	Clark avenue.....	C., C., C. & St. L. R. R.....	Grade.....	635
Leyden.....	Clark avenue.....	C., C., C. & St. L. R. R.....	Grade.....	1,125
Lynn.....	St. Clair.....	Superior.....	Grade.....	1,800

TABLE No. 12—Continued.

Street.	From	To	Improvement.	Length in Feet.
Lake.....	Case avenue.....	Marquette.....	Sewer.....	3,650
Lockyear.....	Becker avenue.....	Hodge avenue.....	Sewer.....	610
Le Roy place.....	Superior.....	Alley, 700 ft. southerly.....	Sewer.....	740
Louis.....	Clark avenue.....	Sackett.....	Sewer.....	2,300
Louis.....	Sackett.....	Trowbridge avenue.....	Sewer.....	500
Light.....	St. Clair.....	Varian.....	Curb.....	645
Melrose avenue.....	Hiddings avenue.....	East Madison avenue.....	Sewer.....	1,180
Milford.....	Clark avenue.....	Storer avenue.....	Sewer.....	2,600
Meyer avenue.....	Pearl.....	Scranton avenue.....	Sewer.....	510
Meade avenue.....	Broadway.....	Track.....	Sewer.....	1,200
Murray Hill avenue.....	Adelbert.....	Cornell.....	Sewer.....	1,200
Miles avenue.....	Broadway.....	Easterly city limits.....	Sewer.....	2,350
Mayflower.....	Woodland avenue.....	Orange.....	Sewer.....	330
Melrose.....	East Madison avenue.....	Genesee avenue.....	Sewer.....	1,300
Mona.....	Cemetery.....	Dike.....	Sewer.....	272
Maud.....	St. Clair.....	Crumb.....	Sewer.....	985
Merwin.....	Center.....	Columbus.....	Repave.....	2,550

TABLE No. 12—Continued.

Street.	From	To	Improvements.	Approximate Cost.
Murray Hill avenue.....	Cornell.....	Mayfield.....	Sewer.....	\$ 1850 00
Marcelline avenue.....	Broadway.....	Harvard.....	Sewer.....	3940 00
Mill and Brighton.....	Walworth run.....	Trowbridges.....	Sewer.....	5840 00
Forwood.....	St. Clair.....	Superior.....	Sewer.....	1965 00
Norton.....	Lorain.....	Alley 800 feet southerly.....	Sewer.....	840 00
Newell.....	Clark avenue.....	Castle.....	Sewer.....	365 00
Oregon.....	Oliver.....	North Perry.....	Sewer.....	1025 00
Bathwaite.....	Cemetery.....	Dike.....	Sewer.....	272 00
Oliver.....	Superior.....	St. Clair.....	Grade and curb.....	675 00
Perl.....	Franklin avenue.....	Walworth run.....	Sewer.....	3500 00
Payne avenue.....	Wason.....	Douglas.....	Sewer.....	500 00
Princeton.....	Euclid avenue.....	Hough avenue.....	Sewer.....	1450 00
".....	".....	".....	Grade and curb.....	1450 00
Phelps.....	Payne avenue.....	St. Clair.....	Grade and curb.....	2130 00
Park place.....	Rockwell.....	".....	Pave.....	3 5 00
Pallister avenue.....	Fleet.....	Charl.....	Grade.....	1500 00
Platt.....	Giddings avenue.....	Car.....	Sewer.....	756 00

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TABLE NO. 12—Continued.

Street.	From	To	Improvements.	Approximate Cost.
Pear.....	Gordon avenue.....	City limits.....	Grade.....	\$ 390 00
Plymouth.....	Central avenue.....	750 ft. North.....	Sewer.....	750 00
Quincy.....	Willson avenue.....	Bolton avenue.....	Pave.....	7400 00
Richland avenue.....	Central avenue.....	Quincy.....	Grade.....	950 00
Russell avenue.....	Beecher.....	Lexington.....	Sewer.....	420 00
Randolph.....	Doloff.....	Bianche.....	Sewer.....	750 00
Ruth.....	Cemetery.....	Dike.....	Sewer.....	272 00
Randall.....	Lorain.....	Bridge.....	Pave.....	600 00
Slater avenue.....	Outhwaite avenue.....	Seovill avenue.....	Sewer.....	695 00
Sanders alley.....	Leonard.....	German.....	Pave.....	270 00
Sheridan.....	Willson avenue.....	N. Y. P. & O. R. R.....	Grade.....	4400 00
Starr avenue.....	E. Madison avenue.....	Easterly end.....	Grade.....	1900 00
Stanton.....	Giddings avenue.....	E. Madison avenue.....	Sewer.....	1600 00
Sage.....	Lorain.....	Dennison avenue.....	Sewer.....	1310 00
Sohn.....	Trambull.....	Warren.....	Sewer.....	530 00
Short alley.....	Euclid avenue.....	Huron.....	Pave.....	210 00
Sixth avenue.....	Willson avenue.....	Norwood avenue.....	Pave.....	1600 00

TABLE No. 12—(Continued).

Street.	From	To	Improvement.	Length in Feet.
Summit.....	Wood.....	Seneca.....	Sewer.....	1,060
Sibley.....	Perry.....	Hayward.....	Pave.....	2,200
Seedle avenue.....	Superior.....	Wado Park avenue.....	Grade and curb.....	1,400
Sherman and Lessing.....	Quincy and Lessing.....	Easterly end of Sherman.....	Sewer.....	1,370
Smiley avenue.....	Superior.....	Star avenue.....	Sewer.....	400
Sheriff.....	Bolivar.....	Engle.....	Pave.....	420
Second avenue.....	Cedar avenue.....	Central avenue.....	Pave.....	1,754
Starkweather avenue.....	Merchant's avenue.....	Pellon avenue.....	Sewer.....	440
Tustin.....	Forest.....	Easterly.....	Sewer.....	460
Trumbull.....	Forest.....	Easterly end.....	Sewer.....	1,450
Tennis.....	Curtis avenue.....	Euclid avenue.....	Sewer.....	830
Wason.....	Lake Erie.....	Superior.....	Sewer.....	2,580
Wilbur court.....	Wilbur.....	Northerly.....	Sewer.....	310
Worley.....	Broadway.....	Spafford.....	Sewer.....	400
Wason.....	St. Clair.....	L. S. & M. S. R. R.....	Pave.....	1,600
Wade avenue.....	Rhodes avenue.....	500 ft. westerly.....	Sewer.....	900
Woodland Hills avenue.....	Fairmount.....	Norman.....	Pave.....	1,920

TABLE No. 12—(Continued).

Street.	From	To	Improvement.	Length in Feet.
Woodland Hills avenue.....	Fairmount.....	Norman.....	Sewer.....	1,920
Washington.....	Center.....	Pearl.....	Sewer.....	1,200
Weckerling.....	Hamm.....	Blanche.....	Sewer.....	950
Wood.....	St. Clair.....	Summit.....	Sewer.....	975
Woolsey.....	St. Clair.....	Superior.....	Sewer.....	3,800
Wason.....	St. Clair.....	Superior.....	Sewer.....	925
Woodruffe avenue.....	Kinsman.....	Wills-on avenue.....	Sewer.....	1,300
Worley.....	Marcelline avenue.....	Broadway.....	Grade and curb.....	1,939
Wire.....	Broadway.....	End of street.....	Sewer.....	750
Walnut.....	Erie.....	Dodge.....	Sewer.....	2,240
Water.....	Superior.....	St. Clair.....	Pave and curb.....	620
	Total in feet.....			219,306
	Total in miles.....			41.53

167 streets.

TABLE No. 13.
STREETS CROSS SECTIONED OR LEVELED DURING 1893.

Name of Street.	From	To	Cross Sections. Length in Feet.	Levels. Length in Feet.
Alley	Orange	Pittsburgh.....		710
Ackley court.....	Meyer avenue.....	City limits.....	1,035	
Alexander.....	Bower	Francis		372
Adelbert.....	Euclid avenue.....	Murray Hill.....	2,235	
Aroy	Prospect.....	Murray Hill.....		370
Alley	Fairview avenue.....	Cozad		433
Asylum sewer	Broadway.....	End.....		1,564
Brown.....	Woodland avenue.....	Platt	762	
Bower	Willson avenue.....	Sheridan.....		770
Hertram.....	Cedar avenue.....	Quincy	2,303	
Bell avenue.....	Euclid avenue.....	Cedar avenue.....	1,307	
Broadway	Miles avenue	Walker.....		348
Brownell	Euclid avenue.....	Woodland avenue.....	3,004	
Burton.....	C. C. & St. L.....	Clark avenue	1,180	
Crawford	Tilden.....	Geneese.....	1,657	
Clifton	Payne avenue	Kelley.....	619	

TABLE NO. 13—Continued.

Name of Street.	From	To	Cross Sections. Length in Feet.	Levels. Length in Feet.
Cornell.....	Euclid avenue.....	Murray Hill.....	2,079	.....
Creighton.....	Perry.....	Chapel.....	511	.....
Coltman.....	Euclid avenue.....	Mayfield.....	1,641	.....
Chamberlain.....	Giddings avenue.....	Parker.....	628	.....
Cedar avenue.....	West end of bridge.....	East end of bridge.....	166	.....
Clifton.....	Payne avenue.....	Kelley.....	646	.....
Dayton.....	Payne avenue.....	Kelley.....	544	.....
Davenport.....	Canfield.....	Briggs.....	2,648	.....
Dayton.....	Payne avenue.....	Kelley.....	543	.....
East Madison avenue.....	Superior.....	Hough avenue.....	4,117	.....
Euclid avenue.....	End of curb.....	30 ft. east of Hlower.....	3,920	.....
East End avenue.....	Coltman.....	Mayfield.....	1,146	.....
Euclid avenue.....	Monroe.....	Stream.....	863	.....
Eliza.....	Cedar avenue.....	Central avenue.....	1,659	.....
Fairview avenue.....	Cozad.....	Mayfield street.....	1,348	.....
Finney.....	Valley.....	Bissell.....	615	.....
Giddings avenue.....	Quincy.....	Woodland avenue.....	1,846	.....
Homewood.....				.....

TABLE No. 13—Continued.

Street.	From	To	Cross Sections. Length in Feet.	Levels. Length in Feet.
Haltnorth	Willson avenue.....	First avenue.....	614	
Huntington	Euclid avenue.....	500 ft. north.....	500	
High	Ontario	Sheriff.....	467	
Hough avenue.....	Willson avenue.....	Ansel avenue.....	9,448	
Jones avenue	Broadway	Harvard.....	1,283	
Jay	Pearl	Jersey.....	1,125	
James.....	Merwin.....	Water.....	514	
Kennedy	Oakdale	Woodland Hills avenue.....	2,409	
Kinder.....	Alley	Alley.....		165
Kelley.....	Case avenue.....	Buckeye.....	849	
Light	St. Clair.....	Varian.....	607	
Merwin.....	Center.....	Columbus.....	2,509	
Monumental Park.....	Superior.....	Park place.....		589
Murray Hill avenue.....	Cedar avenue.....	Mayfield.....		3,753
Maurice	Willson avenue.....	Ezra.....		504
Monroe	Euclid avenue.....	Mayfield.....		1,965
Montgomery.....	Giddings avenue.....	Parker.....	625	
Mayfield place	Mayfield.....	Fence line.....		645

TABLE No. 13—Continued.

Name of Street.	From	To	Cross Sections. Length in Feet.	Levels. Length in Feet.
Cornell.....	Euclid avenue.....	Murray Hill.....	2,079	.....
Creighton.....	Perry.....	Chapel.....	511	.....
Coltman.....	Euclid avenue.....	Mayfield.....	1,641	.....
Chamberlain.....	Giddings avenue.....	Parker.....	628	.....
Cedar avenue.....	West end of bridge.....	East end of bridge.....	166	.....
Clifton.....	Payne avenue.....	Kelley.....	606	.....
Dayton.....	Payne avenue.....	Kelley.....	544	.....
Davenport.....	Canfield.....	Briggs.....	2,648	.....
Dayton.....	Payne avenue.....	Kelley.....	543	.....
East Madison avenue.....	Superior.....	Hough avenue.....	4,117	.....
Euclid avenue.....	End of curb.....	30 ft. east of Hower.....	3,920	.....
East End avenue.....	Coltman.....	Mayfield.....	1,146	.....
Euclid avenue.....	Monroe.....	Stream.....	803	.....
Eliza.....	Cedar avenue.....	Central avenue.....	1,659	.....
Fairview avenue.....	Cozad.....	Mayfield street.....	1,398	.....
Finney.....	Valley.....	Bissell.....	615	.....
Giddings avenue.....	Quincy.....	Woodland avenue.....	1,846	.....
Homewood.....	.....	.....	.....	.....

TABLE No. 13—Continued.

Street.	From	To	Cross Sections. Length in Feet.	Levels. Length in Feet.
Haltnorth	Willson avenue	First avenue	614	
Huntington	Euclid avenue	540 ft. north	540	
High	Ontario	Sheriff	467	
Hough avenue	Willson avenue	Ansel avenue	9,448	
Jones avenue	Broadway	Harvard	1,283	
Jay	Pearl	Jersey	1,125	
James	Merwin	Water	514	
Kennedy	Oakdale	Woodland Hills avenue	2,409	
Kinder	Alley	Alley		165
Kelley	Case avenue	Buckeye	849	
Light	St. Clair	Varian	607	
Merwin	Center	Columbus	2,549	
Monumental Park	Superior	Park place		580
Murray Hill avenue	Cedar avenue	Mayfield		3,753
Maurice	Willson avenue	Esra		504
Monroe	Euclid avenue	Mayfield		1,465
Montgomery	Giddings avenue	Parker		
Mayfield place	Mayfield	Fence line	625	645

TABLE No. 13—Continued.

Street.	From	To	Cross Sections. Length in Feet.	Levels. Length in Feet.
Mason lane.....	Case avenue.....	Alley.....	373	
Newell avenue.....	Coltman.....	Mayfield.....		1,427
Oliver.....	St. Clair.....	Superior.....	675	
Park place.....	St. Clair.....	Rockwell.....	352	
Phelps.....	St. Clair.....	Payne avenue.....	2,145	
Paul.....	Prospect.....	Cowad.....		377
Prospect.....	Mayfield.....	Arey.....		2,277
Pear.....	London avenue.....	James.....	1,489	
Princeton.....	Hough avenue.....	Euclid avenue.....		1,964
Petrie.....	Across gully.....		613	
Richland.....	Central avenue.....	Quincy.....	951	
Ruy.....	Rowley.....	Brainard.....	946	
Star avenue.....	East Madison avenue.....	61 ft. east of Needle.....	1,781	
South Bell avenue.....	Cedar avenue.....	Quincy.....	2,204	
Sterling avenue.....	Cedar avenue.....	Woodland avenue.....	2,760	
Sterling avenue.....	Euclid avenue.....	Prospect.....		401
Second avenue.....	Cedar avenue.....	Central avenue.....	1,753	
Superior.....	Ansel avenue.....	Euclid avenue.....		9,116

TABLE No. 13--Continued.

Name of Street.	From	To	Cross Sections, Length in Feet.	Levels, Length in Feet.
Sixth avenue	Willson avenue	Norwood	1,692	
Seovill avenue	Brownell	Willson avenue		7,174
Sterling avenue	Cedar avenue	Woodland avenue	2,700	
Seovill avenue	Greenwood	Forest		2,010
Sibley	Perry	Hayward	3,225	
Short alley	Alley	Huron	211	
Sterling avenue	Hamilton	St. Clair	331	
Trowbridge	Pearl	Scranton avenue	335	
Vine alley	State	Duane	523	
Wasou	Lake Erie	St. Clair	1,750	
Wade Park avenue	Marcy avenue	Crawford avenue		1,600
Wade Park avenue	Ansel avenue	Doan	1,156	
Walter	Euclid avenue	Prospect		1,700
Total			78,322	49,872

78,322 feet 14.8-100 miles.
 49,872 feet 9.44-100 miles.
 81 streets total, 24.27-100 miles.

TABLE No. 14.
GRADES ESTABLISHED IN 1893. FROM JAN. 3 TO OCT. 16.

Street.	From	To	Length in Feet.	When Established. 1893.
Coltman	Euclid avenue	Mayfield	1,641	July 24.
*Canal	Seneca	Michigan	640	Mar. 6.
Chamberlain	Chamberlain	Giddings avenue	628	June 5.
Cornell	Catawba	Murray Hill avenue	1,000	Nov. 20.
*Davenport	Canfield	Briggs	2,648	Sept. 18.
Euclid avenue	Old city limits	{ 155 feet east from Rosedale, 230 feet } west from Lake View.	2,741	May 20.
Easton avenue	Woodland Hills avenue	1270 east therefrom	1,270	Feb. 27.
Eliza	Cedar avenue	Central avenue	1,659	July 3.
*Fillmore	Pearl	Empress	280	Jan. 3.
Jones avenue	Harvard	716 feet north of Broadway	1,283	Sept. 18.
*Logan avenue	Cedar avenue	Quebec	1,796	Jan. 24.
*Mill	Monroe	Walworth Run	1,035	Feb. 13.
Mill	Walworth Run	Clark avenue	780	Feb. 13.
Monroe	Euclid avenue	Mayfield	1,905	July 24.
Murray Hill avenue	Cedar avenue	Mayfield	3,753	July 3.

TABLE No. 14—Continued.

Street.	From.	To	Length in Feet.	When Established. 1883.
*Merwin.....	Center.....	Columbus.....	2,540	Sept. 18.
McConnell.....	Mil. avenue.....	C. & P. R'y right of way.....	1,212	Oct. 2.
Park place.....	St. Clair.....	Rockwell.....	352	Aug. 28.
Princeton.....	Hough avenue.....	Euclid avenue.....	1,494	April 4.
Pratt.....	Woodland Hills avenue.....	East end of Pratt.....	1,193	Sept. 18.
Quebec.....	Oakdale.....	Doan.....	1,704	July 3.
Ray.....	Rowley.....	Brainard.....	196	July 24.
Short.....	Euclid avenue.....	Huron.....	211	July 3.
Superior.....	388 feet east of Rosedale.....	Center of Benton.....	2,759	Oct. 2.
*Scovill avenue.....	Wilson ave. e.....	Cemetery.....	1,905	Feb. 6.
Star avenue.....	East Madison avenue.....	64 feet east of Seattle.....	1,781	Feb. 13.
*Sheridan.....	Corrater.....	475 feet south of Roland.....	1,666	May 29.
Trowbridge avenue.....	Scranton avenue.....	Rhodes avenue.....	3,127	Oct. 16.
*Wason.....	St. Clair.....	L. S. & M. S. R'y.....	1,391	Feb. 6.
Total.....			45,839	

45,839 feet = 8.68-100 miles.

* (route re-established).

TABLE No. 15.
STREETS AND ALLEYS DEDICATED BY NEW SUB-DIVISIONS IN 1893, AND GRADED OR OTHERWISE IMPROVED, OR IMPROVEMENT GUARANTEED BY THE PROPRIETORS.

Name of Street.	From	To	Name of Allotment.	Date of Approval.	Date for Record.	Length in Feet.
Alley	Olive court.	Curtis avenue.	Olive court sub-division.	March 20, 1893.	Sept. 27, 1893.	222
Alley bet. Superior and East Lake.	Doan	Parkwood	Phillips' allotment	May 1, "	May 6, "	1,544
Alley, part of	Lying bet. Kirtland and Headley	Headley	McIntosh, Agnes, allotment	July 31, "		60
Alley	Headley	Kirtland	McIntosh, Agnes, allotment	July 31, "		240
Alley	Kinkel	Clark avenue	Meyer & Holmden allotment	Aug. 21, "		286
Alley bet. Hathaway and Superior.	Parkwood	Almira	Curtis, Ambler & Johnson	Sept. 11, "	Sept. 27, "	721
Adrian	Churchhill	Superior	Phillips' sub-div	May 1, "	May 6, "	340
Beckman	Bolton avenue.	Oakdale	Beckman, L. re-sub div.	Sept. 25, "	Sept. 27, "	727
Churchhill	Doan	Parkwood	Phillips' sub-div	May 1, "	May 6, "	1,621
Commonwealth avenue	Gale	Stanley avenue	Southern, L. M. allot.	April 4, "	April 6, "	2,170
Cory avenue	(Genesee avenue.	W. line Koch Heirs' allot.	Koch, Heirs, George, allot	Sept. 25, "	Oct. 31, "	281
East Lake	Adrian	Parkwood	Phillips' sub div	May 1, "	May 6, "	1,174
Ehart	Bolton avenue.	Oakdale	Beckman L. re-sub-div.	Sept. 25, "	Sept. 27, "	729
Gale	(Genesee avenue.	Marcy avenue	Southern, L. M. allot.	April 4, "	April 6, "	770
Hathaway	Almira	Parkwood avenue	Curtis, Ambler & Johnson	Sept. 11, "	Sept. 27, "	742

TABLE No. 15—Continued.

Name of Street.	From	To	Name of Allotment.	Date of Approval.	Date for Record.	Length in Feet.
Homestead	Broadway	Shefford	Jones, W. E., et al. re-subdivision	July 3, 1883,	July 7, 1883,	385
Mona	Dike	Cemetery	Lafimer, Jay E., re-subdivision	July 31,	Sept. 11,	272
Oakdale, w. side	S. line of L. Beckman } Re-Subdivision ... }	N. line of L. Beckman re- subdivision	Beckman, L., re-subdivision	Sept. 25,	Sept. 27,	542
Olive court	Olive street	W. line Clara L. Hannon subdivision	Olive court subdivision.	March 20,	Sept. 27,	436
Parkwood avenue	Superior	N. line Curtiss A. & J. sub- division	Curtiss, Ambler & Johnson	Sept. 11,	Sept. 27,	457
Parkwood street	Orville	Superior	Phillips' subdivision	May 1,	May 6,	852
Perkins place	Willson avenue	E. line Schatzinger & Tre- maine's subdivision	Subdivision, Schatzinger & Tre- maine	Nov. 20,	Nov. 27,	314
Plymouth	N. line J. Bartlett } Sub-division ... }	Central avenue	Bartlett, John, subdivision	Aug. 14,	Aug. 17,	749
Ruth	Dike	Cemetery	Lafimer, Jay E., re-subdivision	July 31,	Sept. 11,	272
Sell court	Lockyear avenue	N. line Geo. Sell subdivision	Sell, Geo., re-subdivision	April 10,	April 11,	235
Simon	Woolsey	Angel avenue	Bauer, Simon, subdivision	May 5,	May 9,	988
South Genesee avenue	Euclid avenue	East Prospect	Van Tine & Chadwick	Oct. 30,	Nov. 11,	773
Stanley avenue	Genesee avenue	Marcy avenue	Southern, L. M., allotment	April 4,	April 6,	790
Storer avenue, 30 ft. S.	Alum	W. line C. W. Davis re-allot.	Davis, C. W., re-allotment	May 15,	May 17,	125
Superior place	Superior	S. line J. Decker subdivision	Decker, James, subdivision	Nov. 13,	Nov. 14,	218

TABLE 16—*Concluded.*

SUMMARY.

Total cost of gas furnished street lamps during the year.....	\$ 68,871 83
Total cost of lighting public street vapor lamps during the year.....	59,122 54
Total cost of lighting public electric lamps during the year.....	20,771 86
Total cost of lighting, extinguishing and care of public street gas lamps during the year.....	22,005 93
Total cost of repairs and new work during the year.....	6,066 80
Total cost of lighting City Hall building during the year.....	1,832 00
Total cost of lighting office and engine room of Superior street Viaduct during the year.....	205 76
Total cost of street lanterns and supports during the year.....	1,612 50
Total cost of burners and tips for street gas lamps during the year.....	205 75
Total cost of painting lamp posts during the year.....	382 18
Total cost of lamp posts furnished during the year.....	3,139 71
Total cost of removing old lamp posts during the year.....	80 75
Salary of Gas Inspector for the year.....	1,400 00
	\$ 185,317 61

TABLE No. 17.

**SUMMARY SHOWING THE NUMBER OF NEW LAMPS
LIGHTED, OLD LAMPS RELIGHTED AND LAMPS
DISCONTINUED BY EACH OF THE LIGHT-
ING COMPANIES.**

CLEVELAND GAS LIGHT AND COKE COMPANY.		
Number of lamps lighted December 31, 1892.....	3,681	
Number of new lamps lighted during the year	207	
Number of old lamps relighted during the year.....	3	
Number of lamps changed from vapor during the year.....	132	4,023
Less lamps discontinued on account of electric lights.....		27
Number of lamps lighted December 31, 1893.....		3,996
PEOPLES GAS LIGHT COMPANY.		
Number of lamps lighted December 31, 1892.....	1,249	
Number of new lamps lighted during the year.....	19	
Number of old lamps relighted during the year.....	2	
Number of lamps changed from vapor during the year.....	212	1,482
Less lamps discontinued on account of electric lights.....		6
Number of lamps lighted December 31, 1893.....		1,476
SUN VAPOR STREET LIGHT COMPANY.		
Number of vapor lamps lighted December 31, 1892.....	3,983	
Number of new lamps lighted during the year.....	453	4,436
Less lamps changed to gas during the year.....	346	
Less lamps discontinued on account of electric lights.....	11	357
Number of lamps lighted December 31, 1893.....		4,079

TABLE NO. 17.— *Continued.*

BRUSH ELECTRIC LIGHT AND POWER COMPANY.			
Number of 4000 c. p. lamps lighted December 31, 1892.....	20		
Less lamps discontinued during the year.....	20		00
Number of 2000 c. p. lamps lighted December 31, 1892.....	188		
Number of new 2000 c. p. lamps lighted during the year.....	42		
Number of 2000 c. p. lamps lighted during the year.....			230

TABLE NO. 17—*Concluded.*

RECAPITULATION.

Number of gas lamps lighted December 31, 1893.....	5,472		
Number of gas lamps lighted December 31, 1892.....	4,930		
Increase during the year.....		542	
Number of vapor lamps lighted December 31, 1893.....	4,079		
Number of vapor lamps lighted December 31, 1892.....	3,983		
Increase during the year.....		96	
Total increase of gas and vapor lamps during the year.....			638
Number of 2,000 c. p. electric lamps lighted December 31, 1893.....	230		
Number of 2,000 c. p. electric lamps lighted December 31, 1892.....	188		
Increase during the year.....		42	
Number of 4,000 c. p. electric lamps lighted December 31, 1893.....	00		
Number of 4,000 c. p. electric lamps lighted December 31, 1892.....	20		
Decrease during the year.....		20	
Net increase of electric lamps during the year.....			22
Total number of lamps of all kinds December 31, 1893.....	9,781		
Total number of lamps of all kinds December 31, 1892.....	9,121		
Increase during the year.....			660

TABLE NO. 18.
 NOTICES SERVED DURING THE YEAR FOR CONSTRUCTING HOUSE SEWER AND WATER
 CONNECTIONS TO CURB LINE IN ADVANCE OF THE PAVING.

Name of Street.	From	To	Length.	No. notices served.		No. of Connections put in by Property Owners.		No. of Delinquent Connections put in by City.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Burton.....	Lorain.....	Clark avenue.....	3,797	109	109	59	29	2	1
Beech.....	Central avenue.....	Woodland avenue.....	2,575	76	76	38	36	.....	.....
Bolivar.....	Erie.....	892 ft. east.....	892	35	35	1	4	.....	.....
ChAMPLIN.....	Canal.....	Ontario.....	1,715	63	64	50	33	4	4
Cross.....	Broadway.....	Berg.....	641	28	28	14	4	2	1
Central avenue.....	Wilson avenue.....	C. & P. track.....	2,358	93	102	37	38	.....	.....
Clinton.....	Hanover.....	Liberty.....	3,212	93	93	35	20	5	3
East Prospect.....	Wilson avenue.....	Bolton avenue.....	7,385	206	207	163	141	4	1
East River.....	St. Clair.....	Front.....	1,801	40	56	.....	10	.....	.....
Fourth avenue.....	Wilson avenue.....	Second avenue.....	1,461	53	54	27	26	1	1
Genee.....	Wade Park avenue.....	Hough avenue.....	2,286	91	91	48	67	.....	8
Harkness avenue.....	Euclid avenue.....	Hough avenue.....	2,361	100	100	58	53	.....	.....
Huntington.....	Superior.....	Euclid avenue.....	1,746	37	37	20	10	.....	.....
Huntington.....	Prospect.....	Central avenue.....	839	46	46	15	16	.....	.....

TABLE No. 18—Continued.

Street.	From	To	Length.	No. of Notices Served.		No. of Connections put in by Property Owners.		No. of Delinquent Connections Put in by City.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Hill.....	Commercial.....	Cross.....	851	23	28	14	7	1	.....
Humboldt.....	Orange.....	313 ft. south Croton.....	913	32	32	2	.....	.....	.....
Hamilton.....	Ontario.....	Wood.....	479	13	14	3	2	.....	.....
High.....	Ontario.....	Sheriff.....	468	16	16	11	10	.....	.....
Logan.....	Euclid avenue.....	Cedar avenue.....	1,380	40	40	14	7	.....	.....
Logan avenue.....	Euclid avenue.....	Lanmont.....	1,750	66	66	19	12	.....	.....
Liberty.....	Detroit.....	Franklin avenue.....	735	16	16	7	2	.....	.....
Livingston.....	Central avenue.....	Cedar avenue.....	1,283	3	3	3	3	.....	.....
Miami alley.....	Huron.....	Bolivar.....	384	7	5	1	1	.....	.....
Michigan.....	Ontario.....	Canal.....	1,098	52	52	40	17	2	2
Mayfield.....	Euclid avenue.....	City limits.....	648	23	23	14	10	.....	.....
North Perry.....	Superior.....	St. Clair.....	591	23	23	4	3	4	.....
Orange.....	Cross.....	Humboldt.....	4,585	227	249	57	53	1	1
Perry.....	Woodland avenue.....	Broadway.....	898	35	35	4	1	.....	.....
Prospect.....	Ontario.....	Erie.....	1,762	71	71	56	43	7	5
Payne avenue.....	Muirson.....	Willson avenue.....	9,894	340	311	117	140	.....	.....

TABLE No. 18—Continued.

Street.	From	To	Length.	No. of Notices Served.		No. of Connections put in by Property Owners.		No. of Delinquent Connections Put in by City.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Rockwell.....	Monumental Square....	Erie.....	1,220	33	33	22	14		
Seneca.....	Summit.....	St. Clair.....	908	30	30	23	17	1	1
Starling avenue.....	Euclid avenue.....	Cedar avenue.....	1,144	19	19	11	8		
Superior.....	Water.....	Monumental Square....	1,500	29	40	1			
Wood.....	St. Clair.....	Superior.....	557	4	4	3	2		
			66,137	2,182	2,233	963	839	34	20

TABLE No. 19.

MONUMENTS RESET FROM SURVEYS 1893.

Aaron street center line at intersection with south line of St. Clair.
 Alum street center line at intersection with south line of Frontier street.
 Auburn street center line at intersection with center line of Jennings avenue.
 Auburn street center line at intersection with center line of Merchant avenue.
 B street north line at intersection with center line of C street.
 Beaumont street center line at intersection with north line of Wade Park avenue.
 Beaumont street center line at intersection with center line of alley.
 Beecher street center line at intersection with center line of Giddings avenue.
 Beechwood street center line at second angle north of Quincy street.
 Birch street center line at intersection with north line of Lorain street.
 Birch street center line at intersection with center line of Duke street.
 Broadway east line at intersection with center line of Walker street.
 Canal street center line at angle near Michigan street.
 Chestnut street center line at angle east of Muirson street.
 Cliff street center line at intersection with center line of Scranton avenue.
 Courtland street center line at intersection with north line of Franklin avenue.
 Courtland street center line at intersection with south line of Franklin avenue.
 Courtland street center line at intersection with north line of Bridge street.
 Courtland street center line at intersection with north line of Lorain street.

TABLE No. 19—Continued.

Courtland street center line at intersection with center line of Duke street.
Dare street center line at intersection with center line of Duke street.
Dare street center line at intersection with north line of Lorain street.
Dare street center line at intersection with center line of Bridge street.
Dunham place center line at intersection with east line of Dunham avenue.
East Prospect street center line at first angle east of Wilson avenue.
Gauge street center line at intersection with north line of Clark avenue.
Genesee avenue center line at intersection with north line of Hough avenue.
Giddings avenue center line at intersection with center line of Quincy street.
Glen Park place center line 309 feet east of alley.
High street center line at intersection with center line of Middle street.
High street center line at intersection with center line of Sheriff street north.
High street center line at intersection with center line of Sheriff street south.
High street center line 10 feet west of Sheriff street north.
<i>Louis street center line at intersection with center line of Trowbridge avenue.</i>
<i>Marvin avenue center line at intersection with west line of Pearl street.</i>
Marvin avenue center line at intersection with center line of Brooklyn street.
Marvin avenue center line at intersection with center line of Rhodes avenue.
Marvin avenue center line at intersection with orig. lot line east of Rhodes avenue.
Melberry street center line at intersection with south line of St. Clair street.
Merwin street center line at intersection with center line of Center street.

TABLE NO. 19—Continued.

Merwin street center line at angle north of Center street.
North Woodland avenue center line at intersection with center line of Congress street.
Oregon street north line at intersection with center line of Oliver street.
Oregon street center line at intersection with east line of North Perry street.
Parker street center line at intersection with center line of Quincy street.
Petrie street center line at first angle north of bridge.
Petrie street center line at first angle south of bridge.
Pine street center line at intersection with center line of Sterling avenue.
Pine street center line at intersection with center line of Greenwood street.
Pleasant street center line at intersection with center line of Storer avenue extension.
Princeton street center line at intersection with north line of Euclid avenue.
Princeton street center line at intersection with north line of original lot 389.
Quincy street center line at intersection with west line of Southern, Hower & Burgert's allotment.
Redell street center line at intersection with east line of East Madison avenue.
Second avenue west line at intersection with center line of Fourth avenue.
Seneca street west line at intersection with center line of Ohio street.
Seneca street west line at intersection with center line of Walworth street.
Seneca street center line at intersection with center line of Central Viaduct.
Seneca street center line at intersection with south line of Harrison street.
Trowbridge avenue at angle west of Louis street.
Vienna street center line at intersection with south line of Cedar avenue.
Walker street center line at angle.
Wood street center line at intersection with center line of Theresa street.

Department of Public Works.

FOURTH DIVISION.

Report of Board of Park Commissioners.

Report of Board of Park Commissioners.

To the Honorable Council of the City of Cleveland:

The Board of Park Commissioners of said city herewith submits a report of its proceedings, together with a detailed statement of its receipts and expenditures for the year 1893:

APPOINTMENT OF THE BOARD.

In accordance with the provisions of section 1 of the Park Act, so called, enacted April 5, 1893, by the General Assembly of the State of Ohio, the Commissioners of the Sinking Fund of said city, on April 26, 1893, appointed the following named persons as members of the Board of Park Commissioners of the City of Cleveland, to-wit:

Charles H. Bulkley, for the five year term; Amos Townsend for the four year term; John F. Pankhurst for the three year term; Robert Blee, Mayor of the city of Cleveland, and A. J. Michael, President of the Council of said city, being *ex officio* members of said Board.

ORGANIZATION OF THE BOARD.

The first meeting of the Board was held on May 8, 1893, at which time Mr. Chas. H. Bulkley was unanimously elected President of the Board.

On May 23, 1893, Mr. F. C. Bangs was unanimously elected Clerk of the Board.

SUPERINTENDENT.

Mr. C. D. Klock, who was appointed Superintendent of Parks by Director Herrick, prior to the passage of the Park Act, has continued to serve in the same capacity since May 16, 1893, upon which date the Board assumed the management and control of the park system of the city.

APPOINTMENTS

made by the Board are as follows :

FOREMEN OF PARKS.

Edward French at Wade Park, M. Curry at Sterling Park, S. E. Foljambe at Clinton Park, Hamlet Bennett at Lake View Park, Terrence Boylan at Monumental Park, Frederick Mensel at South Side Park, John Smith at Franklin Park, D. Bennethune at Miles Park, John Hogg at Gordon Park.

PARK POLICE FORCE.

As provided in section 6 of said act, on June 13, 1893, the Board established a uniformed park police force, consisting of seven members, a much smaller number than is needed and required to properly preserve the peace and enforce the rules and regulations of the Board throughout the present park areas, but which the Board, with the limited means at its command, found itself unable to increase. The monthly rate of compensation of members of the force is \$60. The following named persons were appointed by the Board as members of said force, and assigned to duty as follows: Officer No. 1, Harvey C. Wilcox, at South Side Park; Officer No. 2, John Green, at Lake View Park; Officer No. 3, Patrick O'Day, at Gordon Park; Officer No. 4, Otis Shreve, at Wade Park; Officer No. 5, William Curtiss, at Wade Park; Officer No. 6, William Hadderath, at Wade Park; Officer No. 7, Daniel Phalan, at Gordon Park.

TAX LEVY FOR MAINTENANCE OF PARKS.

As provided in section 12 of said act, on June 13, 1893, the Board certified to your honorable body the estimated amount needed for defraying the expenses of managing and controlling the park system for the year 1894, as being the sum of \$84,000.

The rate of tax levy for park purposes, as subsequently provided by your honorable body, was .00045 upon each dollar of valuation upon the grand duplicate, which is expected to produce a fund of \$55,000 for the purposes mentioned.

While this amount, in the opinion of the Board, is nearly \$30,000 less than the amount which ought to be expended upon the park system for its own best interests, and which its necessities actually require, nevertheless, the Board cheerfully

accepts the situation as it finds it, and will earnestly strive to accomplish the best possible results with the means placed at its disposal.

RULES AND REGULATIONS.

As provided in section 2 of said act, on June 20, 1893, the Board adopted and promulgated rules and regulations governing the use of the parks, park entrances and park driveways, and the travel and traffic therein and thereon, and also to prevent disorder and improper conduct therein.

AUTHORIZING ISSUANCE OF BONDS.

As provided in section 10 of said act, on July 5, 1893, the Board adopted a resolution providing for the issue of \$500,000 four per cent. park bonds, to be dated October 1, 1893, and to mature thirty years from date thereof. And on December 27, 1893, the Board adopted a resolution providing for the issue of \$500,000 like bonds, to be dated April 1, 1894, and to mature thirty years from date thereof.

TAX LEVY FOR INTEREST PURPOSES.

For the purpose of meeting the interest charges maturing upon said bonds during 1894, the Board on July 5, 1893, levied a tax of .0002 on each dollar of the real and personal property returned on the grand duplicate of said city, and duly certified the same to the county auditor, as provided in said last named section of said act.

REMOVAL OF THE PERRY MONUMENT.

During the early part of December, 1893, upon concurrent action of this Board and the city authorities, the statue of Commodore Perry (which some time ago had been removed from Monumental Park by reason of the erection of the Soldiers' monument therein), was erected in Wade Park, upon what is known as the "parade ground," in a commanding position, facing the Euclid avenue entrance to the park.

PROPOSED PARKS AND BOULEVARDS.

A large amount of time has been devoted by the Board in relation to these much needed improvements, both as regards

personal inspection of proposed grounds and routes, as well as serious consideration and discussion of all matters pertaining thereto.

But, owing to inability to float any of the park bonds authorized, (the rate of interest upon which is restricted to four per cent.) by reason of the continued general financial stringency during the past six months, the Board, much to its serious regret, has been powerless to actively begin the construction of these much needed improvements, or to purchase or acquire the necessary lands needed therefor.

At the same time, however, such enforced delay in the work of purchase and construction has not been entirely without rewards, nor been unaccompanied with results highly valuable and beneficial in character, for the reason that much needed opportunity has thereby been afforded the Board to personally inspect, and most carefully weigh and consider the respective merits of the various sites and routes proposed and suggested, as well as to ascertain and determine the feasibility and approximate cost of each.

The first proposed issue of bonds is now being advertised for sale, with good prospects of favorable results; and with the removal of the financial embargoes and difficulties which, up to the present time, have completely obstructed the progress of this work, the Board has not the least hesitation in expressing its earnest hope and belief, notwithstanding what might appear to those unfamiliar with the insurmountable obstacles heretofore in the way of progress in that direction, as seeming inactivity and delay, that at the expiration of the ensuing year results will be apparent which will prove more satisfactory in character, and more comprehensive and extensive in progress and development than would have resulted had circumstances been such that work had commenced earlier, without the opportunity of giving it the painstaking investigation and careful consideration which its magnitude and character imperatively require and demand.

FINANCIAL STATEMENTS.

Detailed financial statements, prepared by the clerk, are hereto attached, showing in detail the receipts and expenditures of the Board during the year; consecutively numbered record of

all orders drawn and warrants paid, showing to whom and for what purpose all payments were made ; classification by items as regards appropriations made, with divisions of same as charged to the various parks, showing total expenditures in each, together with condensed summaries and recapitulation thereof, to which reference is hereby made.

Respectfully submitted,

C. H. BULKLEY,
AMOS TOWNSEND,
ROBERT BLEE,
A. J. MICHAEL,
J. F. PANKHURST,
Board of Park Commissioners.

Cleveland, O., Dec. 31, 1893.

RECEIPTS.

Cash on hand May 16, 1893.....	\$ 14,489 76	\$.....
Retained in treasury for payment of "old claims".....	3,735 00	.....
Net cash balance May 16, 1893.....		10,754 76
Received from lease of refreshment privileges in Wade Park.....	250 00	.....
Received from lease of boating privileges in Wade Park.....	900 00	.....
Received from rent of Town Hall in Miles Park.....	95 00	.....
Received from Cleveland Electric R'y Co. for special police.....	60 00	.....
Received from June, 1893, collection of taxes.....	15,230 10	16,535 10
Total cash receipts.....		\$ 27,280 86

DISBURSEMENTS.

Orders drawn on City Auditor as per detailed statement herewith.....	\$ 23,982 07
Cash on hand January 1, 1894, in City Treasury—to balance.....	3,297 79
	\$ 27,280 86

PARK DISTRIBUTION.

Wade.	Stanton.	Sterling.	Clinton.	Lake View.	Monument.	South Side.	Franklin.	Miles.	Undivided.
\$ 8,636 91	\$ 2,378 33	\$ 125 65	\$ 650 18	\$ 2,625 71	\$ 2,064 90	\$ 1,566 75	\$ 537 83	\$ 354 64	\$ 5,031 37

RECEIPTS.

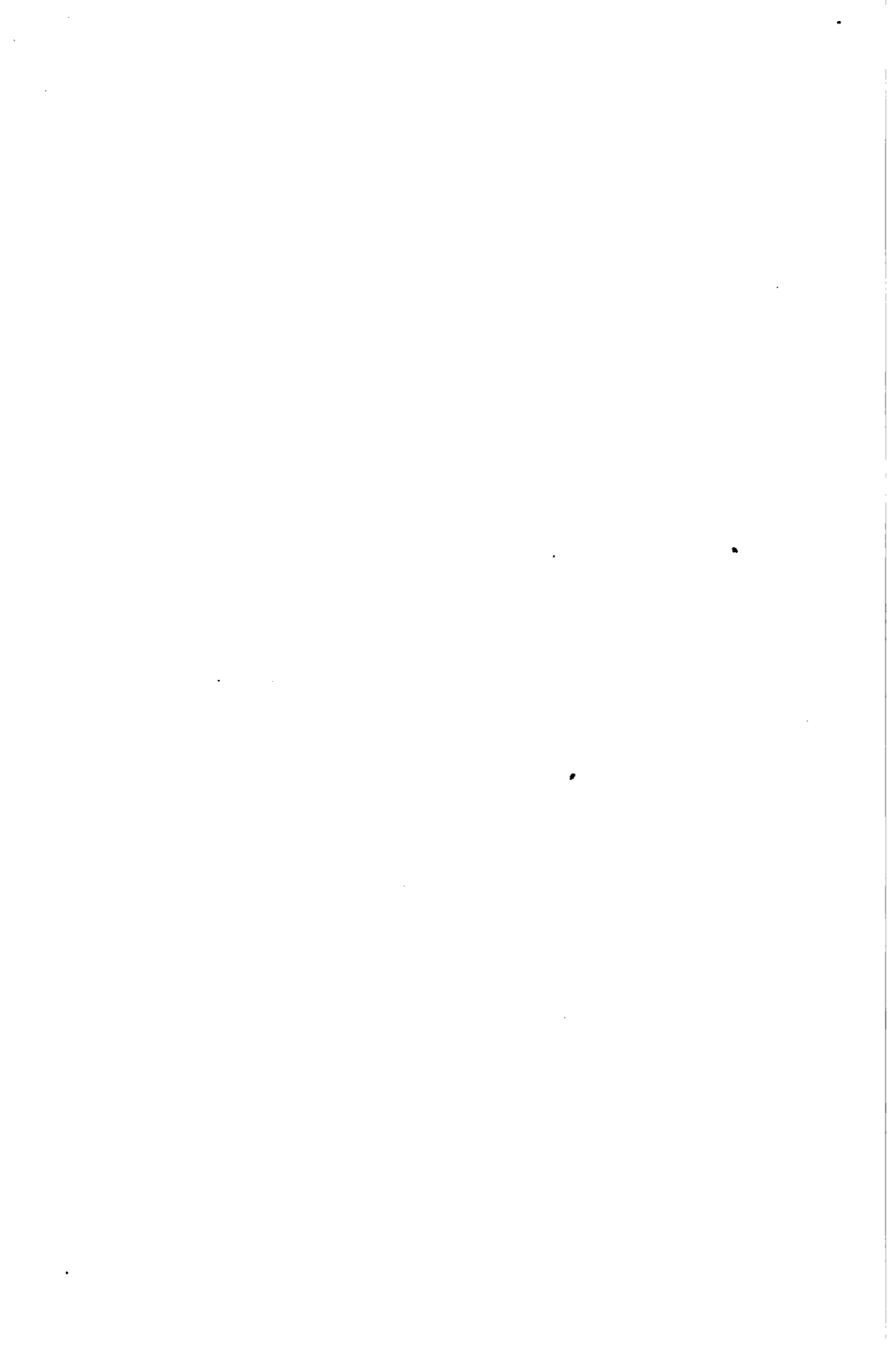
Taxes	\$ 15,230 10
Earnings	1,305 00
Total revenue	\$ 16,535 10

DISBURSEMENTS.

Fixed charges	\$ 9,058 47
Furniture and fixtures	580 02
Supplies	12,303 68
Total current expenses	\$ 21,942 17
Permanent improvements	2,039 90
Total disbursements	\$ 23,982 07

CASH.

On hand on May 16th, 1893	\$ 10,764 76
Receipts	16,535 10
Total	\$ 27,299 86
Disbursements	23,982 07
On hand January 1st, 1894	\$ 3,317 79





APPROPRIATION

	PAYEE.	1	2	3	4	5	6
1	McIntosh-Huntington Co.....					24 01	
2	Brooks & Co.....						
3	Brooks & Co.....					5 25	
4	Cleveland Desk Co.....				124 00		
5	Brooks & Co.....						
6	Potter, Birdsall & Co.....						
7	Chandler & Fisher.....						
8	Sterling, Welch & Co.....				10 35		
9	Brooks & Co.....						
10	McIntosh-Huntington Co.....					36 48	
11	F. C. Bangs, Secretary.....				50		
12	W. A. Ingham.....						
13	Cleveland Desk Co.....				42 00		
14	McIntosh-Huntington Co.....					8 00	
15	Dunn Bros.....						
16	Dunn Bros.....						
17	McIntosh-Huntington Co.....					8 50	
18	Chas. H. Wheaton.....						
19	H. D. Pritchard.....						
20	L. P. Tarbell.....						
21	C. H. Wheaton.....						
22	H. D. Pritchard.....						
23	L. P. Tarbell.....						
24	Cleveland Trans. & Carriage Co.....						
25	Brooks & Co.....						
26	H. H. Imbery.....						
27	McIntosh-Huntington Co.....						
28	Robert S. West.....						
29	M. Geib.....						
30	McIntosh-Huntington Co.....					1 94	
31	Jerry Blackwell.....						
2	McIntosh-Huntington Co.....					2 25	

APPROPRIATI

	PAYEE.	1	2	3	4	5
33	Chas. Ford.....	\$.....	\$.....	\$.....	\$.....	\$.....
34	Williams Bros.....					
35	McIntosh-Huntington Co.....					4 00
36	Standard Oil Co.....					
37	McIntosh-Huntington Co.....					
38	McIntosh-Huntington Co.....					
39	John J. Graves.....					16 00
40	Chas. Ford.....					28 60
41	Cleveland Desk Co.....				28 25	
42	John J. Graves.....					
43	Potter, Birdsall & Co.....					
44	Potter, Birdsall & Co.....					
45	Robert Kegg.....					
46	Dunn Bros.....					
47	W. H. H. Peck Co.....					
48	McIntosh-Huntington Co.....					11 50
49	Robert Kegg.....					
50	D. Charlesworth.....					
51	Potter, Birdsall & Co.....					
52	McIntosh-Huntington Co.....					
53	A. T. Osborn & Co.....					
54	McIntosh-Huntington Co.....					
55	Plain Dealer Pub. Co.....					
56	H. H. Imbery.....					
57	M. Geib.....					
58	F. C. Bangs, Sec'y.....					
59	Leader Printing Co.....					
60	Plain Dealer Pub. Co.....					
61	C. D. Klock, Sup't ...					
62	W. H. H. Peck Co.....					
63	Chas. H. Wheaton.....					
64	H. D. Pritchard.....					

PRIATIC

5	6
\$.....	\$.....
4 00	
16 00	
28 00	
11 50	

APPROPRIATION

	PAYEE.	1	2	3	4	5	6
65	L. P. Tarbell.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
66	Williams Bros.....						
67	Potter, Birdsall & Co.....						
68	Beattie & Son.....						
69	Cancelled.....						
70	Thomas Lynett.....						
71	McIntosh-Huntington Co.....						
72	Standard Oil Co.....						
73	J. W. and M. H. Gale.....						
74	Hercules Powder Co.....						
75	M. E. Johnson.....						
76	Wood-Hanna Co.....						
77	McIntosh-Huntington Co.....					21 57	
78	A. T. Osborn & Co.....						
79	Dunn Bros.....						
80	Upson-Walton Co.....						
81	Potter, Birdsall & Co.....						
82	W. W. Woodruff.....						35 0
83	E. F. Payne.....						
84	Potter, Birdsall & Co.....						
85	Wood-Hanna Co.....						
86	Chas. H. Wheaton.....						
87	H. D. Pritchard.....						
88	L. P. Tarbell.....						
89	Williams Bros.....						
90	H. H. Imbery.....						
91	M. Geib.....						
92	Cleveland Window Glass Co.....						
93	A. T. Osborn & Co.....						
94	McIntosh-Huntington Co.....					90	
95	F. C. Bangs, Secretary.....						
96	C. D. Klock, Supt.....						

ATION

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35

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APPROPRIATION

	PAYEE.	1	2	3	4	5	6
97	G. F. Leick.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
98	Slade & Potter.....						
99	Cancelled.....						
100	McIntosh-Huntington Co.....						
101	M. E. Johnson.....						
102	Standard Oil Co.....						
103	Clev. Gas Fix. & Mfg. Co.....						
104	McIntosh-Huntington Co.....						
105	M. Geib.....						
106	H. H. Imbery.....						
107	Cleveland Directory Co.....						
108	James Ritchie.....						
109	M. E. Johnson.....						
110	McIntosh-Huntington Co.....					11 75	
111	McIntosh-Huntington Co.....						
112	Standard Oil Co.....						
113	Chas. H. Wheaton.....						
114	Owen Commission Co.....						
115	H. D. Pritchard.....						
116	L. P. Tarbell.....						
117	Potter, Birdsall & Co.....						
118	Robert S. West.....						
119	McIntosh-Huntington Co.....					7 00	
120	M. E. Johnson.....						
121	Alfred Tilton.....						
122	W. H. Caine.....						
123	O. & P. Coal Co.....						
124	F. C. Baugs, Sec'y.....						
125	C. D. Klock, Supt.....						
126	F. Ordi.....				41 00		
127	H. H. Imbery.....						
128	Owen Commission Co.....						

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Vertical table structure with multiple rows and columns, mostly empty.

APPROPRIATION

	PAYEE.	1	2	3	4	5	6
129	H. D. Pritchard	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
130	L. P. Tarbell.....						
131	Chas. H. Wheaton.....						
132	D. Bermethune						
133	McIntosh-Huntington Co.....						
134	Standard Oil Co.						
135	Geo. Worthington Co.....					52 76	
136	M. Geib.....						
137	H. D. Pritchard						
138	Owen Commission Co.....						
139	L. P. Tarbell						
140	Chas. H. Wheaton.....						
141	McIntosh-Huntington Co.						
142	Woods & Co.....						
143	O. & P. Coal Co.						
144	Potter, Birdsall & Co.....						
145	O. & P. Coal Co.....						
146	Plain Dealer Pub. Co.....						
147	Leader Printing Co.....						
148	M. E. Johnson						
149	M. E. Hooper.....				7 65		
150	E. F. Payne						
151	M. Y. Hutton, agent.....	50 00					
152	Potter, Birdsall & Co.						
153	McIntosh-Huntington Co.....					18 32	
154	Brooks & Co.....						
155	Mussey Stone Co.....						
156	H. D. Pritchard						
157	Owen Commission Co.....						
158	L. P. Tarbell						
159	Chas. H. Wheaton.....						
160	Chas. A. Wood Co.....						

APPROPRIATIO

	PAYEE.	1	2	3	4	5	6
161	O. & P. Coal Co.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
162	M. E. Johnson.....						
163	Standard Oil Co.....						
164	Slade & Potter.....						
165	F. Ortl.....					10 00	
166	Frederick Waile.....						
167	Chas. Calhoun.....						
168	Geo. Worthington Co.....					7 00	
169	McIntosh-Huntington Co.....					94	
170	H. H. Burgess, Clerk.....						
171	F. C. Bangs, Sec.....						
172	C. D. Klock, Sup't.....						
173	J. H. Farley, Dir.....						
174	McIntosh-Huntington Co.....						
175	Geo. Worthington Co.....					14 50	
176	Storey & Thorndike.....						
1	W. W. Armstrong, Treas.....		419 50	129 03			
2	do		379 54	100 00			
3	do		440 42	100 00			
4	do		486 66	100 00			
5	do		486 67	100 00			
6	do		486 66	100 00			
7	do		486 67	100 00			
8	do		486 66	100 00			
9	do		486 67	100 00			
10	do		486 66	100 00			
11	do		566 67	100 00			
12	do		566 66	100 00			
13	do		566 67	100 00			
14	do		566 66	100 00			
15	do		566 67	100 00			

DEPARTMENT OF POLICE.

DIVISION OF POLICE.

W. C. POLLNER, Director of Police.

JOHN VANEK, Secretary.

HENRY HOEHN, Superintendent.

JAMES McMAHON, Deputy Superintendent.

M. F. MADIGAN,)
MICHAEL ENGLISH,) Captains 1st District.

A. S. GATES, Captain 2d District.

E. K. HUTCHINSON, Captain 3d and 4th Districts.

F. R. HUMPHREY, Captain of Detectives.

F. B. NORTON, Police Surgeon.

REPORT
OF THE
Director of the Department of Police
OF THE
CITY OF CLEVELAND.

CLEVELAND, January 1, 1894.

To the Honorable Robert Blee, Mayor:

SIR :—In accordance with law, I have the honor to submit herewith my Annual Report of the Department of Police, including the Divisions of Public Health, Markets, Hay Weighers and City Sealer, and the condition of the several funds and accounts for the year ending December 31st, 1893.

The reports of the heads of the various Divisions will give in detail the condition of such Divisions.

The total expenditures of the Division of Police during the year, as shown in detail by the report of the Secretary of Police hereto appended, was \$365,536.80, of which sum \$307,086.23 was paid for salaries of the Force, and \$1,204.70 of the Pound Keepers, \$36,067.97 for permanent improvements, and \$21,177.90 for all other expenditures of the Department, as rent, repairs, furniture, fuel, lighting, supplies, horses, horse feed and shoeing, telegrams, rent of telephones, equipments, meals of prisoners, and other incidental expenses.

The above expenditures cover the payment of salaries for *twelve and one-half* months, and of all other expenditures for *thirteen* months up to January 1, 1894.

The amount thus expended was paid as follows :

From the Police Fund.....	\$361,459.27
“ “ Contingent Fund.....	4,077.53
Total.....	<u>\$365,536.80</u>

The expenditures in 1892 for *twelve* months were \$291,342.35 for salaries, \$14,241.80 for permanent improvements, and \$24,096.47 for all other expenses. Total, \$329,680.62.

Extensive but needed improvements have been made during the year.

The building of the new Central Police Station on Champlain street, in course of erection, when completed, will not only be a great convenience to this Department but an ornament in that part of the city.

A new and commodious Station has been erected on Doan street in the 11th Precinct, which will greatly facilitate the workings of the Department.

A new Patrol Station, known as No. 4, has been established in the 6th Precinct, land purchased, and a suitable building erected on Willson avenue near the 6th Precinct Police Station, and a new modern system of police alarm connected with telephones provided for this District from which good and efficient service is expected.

The Second and Third Precinct Stations are still provided with stone cells, which will in the near future be substituted with iron cages; contracts for said work have been awarded.

In the Fourth and Fifth Precincts, the city has no stationhouses, rooms being rented by the city for that purpose, but neither of them are suitable for police stations, and wholly inadequate to accommodate men and prisoners, requiring constant repairs, and as a matter of economy and convenience, it is to be hoped that the city will soon build its own houses in these Precincts.

The station-houses in the 6th, 7th, 8th, 9th and 10th Precincts, with some repairs, are in good habitable conditions.

The necessity of a police ambulance is shown every day, and at least one should be placed at the Central Police Station, which would be a saving to the city of a considerable expense.

The present Police Alarm System is antiquated and does not answer the purpose for which it is intended, and the same system as provided in the new district in the 6th Precinct should be extended through the entire city, and at least fifty new boxes added.

I am fully convinced that the present force is inadequate for the protection of persons and property in our city, and that more men are required to give certain portions of the city protection to which the residents are entitled.

According to the official reports of the different cities, there is one policeman to the number of population as follows:

New York.....	1	Policeman to	406	of population.
Chicago	1	“	392	“
Philadelphia.....	1	“	486	“
Brooklyn	1	“	557	“
St. Louis.....	1	“	582	“
Boston	1	“	508	“
Baltimore.....	1	“	546	“
San Francisco.....	1	“	653	“
Cincinnati.....	1	“	615	“
Cleveland.....	1	“	1052	“

I would therefore recommend that the Force be increased by the appointment of at least 50 patrolmen, when sufficient funds are provided for that purpose.

J. W. Schmitt, Superintendent of Police, upon his own request, was retired from active service and placed on the Police Pension Roll, on July 1, 1893, and Captain Henry Hoehn, appointed as Superintendent; Lieutenant Michael English, as Captain, Sergeant P. Corkill, as Lieutenant, and Patrolman John O'Donnell, No. 54, as Sergeant.

Detective Charles McHannan, also upon his own request, was retired from active service and placed on Police Pension Roll, July 10, 1893, and Patrolman James Doran appointed in his place as detective.

Two patrolmen while in active service died during the year, and two officers and two patrolmen were placed on the police pension roll; two patrolmen were discharged from the Force and two resigned.

Nine vacancies occurred in the patrol force and seven of them were filled, two remaining vacant.

Complaints and charges were preferred against 20 officers during the year for violation of the following rules: Intoxication, 2; neglect of duty, 13; conduct unbecoming an officer, 2; making a false report, 1; appropriating city property, 1; unnecessary violence to persons, 1.

Upon a public hearing the sentences were as follows: Discharged from the force, 2; reprimanded and fined \$25.00, 2; \$12.50, 2; \$10.00, 4; \$5.00, 4; reprimanded, 5; resigned, pending charges, 1.

The total number of persons arrested was 9,368, against 10,717 for the previous year, being a decrease of 1,349.

Of the total number of arrests, 3,104 were for violating State laws, and 6,264 for violating the city ordinances.

I would respectfully call your attention to the reports of the Health Officers and other officials of the Division of Public Health, and would recommend the necessary legislation to carry their recommendations into effect.

Yours respectfully,

W. C. POLLNER,

Director of Police.

REPORT OF THE SECRETARY OF POLICE.

- - - - -

W. C. Pollner, Director of Police.

SIR:—I herewith submit the following report of the Resources and Disbursements of the several funds, also the different changes in the Force for the year ending December 31, 1893.

Respectfully,

JOHN VANEK,

Secretary of Police.

POLICE FUND.

RESOURCES.		
Balance January 1, 1893		\$ 9,807 49
Tax levy	\$ 207,196 37	
Dow liquor tax.....	144 915 03	
Sale of bonds.....	100,000 00	
From poundkeepers	26 20	
For damages to boiler house.....	32 00	
Taxes refunded by Mrs. Mary D. Morgan.....	17 61	
Refunded from Market Fund.....	.14 00	
		452,201 21
Total resources.....		\$ 462,008 70
DISBURSEMENTS.		
For salaries	\$ 307,086 23	
For land, buildings and all other claims.....	54,373 04	
		361,459 27
Balance January 1, 1894.....		\$ 100,549 43

POLICE COURT FUND.

RESOURCES.	Police Court.	Workhouse	
Balance January 1, 1893.....			\$ 1,121 64
Fines and costs collected in Police Court and at the Workhouse:			
January	\$ 1,468 25		
February	1,179 00		
March.....	1,636 60		
April	1,779 05		
May	2,096 85		
June.....	1,767 80		
July.....	1,118 25	109 65	
August.....	1,653 05	60 35	
September	1,238 05	81 05	
October.....	1,247 75	68 35	
November.....	951 05	56 10	
December.....	1,082 10	69 05	
Amount held by the Clerk until disposed in Court and turned in.....	\$ 17,217 80	\$ 444 55	\$ 17,662 35 5,276 00
Total.....			\$ 24,059 99
DISBURSEMENTS			
Salaries of Court officers.....		\$ 14,250 00	
Interim salaries of officers.....		199 90	
Witness and juror fees.....		1,042 50	
Contingent expenses.....		1,096 27	
Repairs of court rooms.....		54 72	
Livery, serving jury papers.....		122 50	
Transporting prisoners to Workhouse.....		480 00	
Fees of Police officers.....		6,431 05	
Total.....			\$ 23,676 94
Balance January 1, 1894.....			\$ 383 05

CONTINGENT FUND.

RESOURCES.			
Balance January 1, 1893.....	\$.....		\$ 11,412 15
Marshal fees in Police Court, city cases.....	2,885 37		
Marshal fees in Police Court, state cases.....	1,609 88		
Marshal fees in Court of Common Pleas.....	513 27		
Interest on moneys in banks.....	438 10		
For old horses.....	85 00		
For old iron, zincs, etc.....	27 00		
			4,558 62
Total			16,970 77
DISBURSEMENTS.			
Claims paid by the Secretary :			
January.....	\$ 93 70		
February.....	239 44		
March.....	92 81		
April.....	233 78		
May.....	406 22		
June.....	685 11		
July.....	376 98		
August.....	161 28		
September.....	229 43		
October.....	922 17		
November.....	282 88		
December.....	353 73		
Total			4,077 53
Balance January 1, 1894			\$ 12,893 24
ASSETS.			
Deposited at the Savings & Trust Co.....	\$ 6,717 49		
Deposited at the Citizens Savings & Loan Association.....	5,841 02		
Cash in Secretary's hands.....	334 73		
Total			12,893 24

EXPENDITURES PAID FROM THE DIFFERENT FUNDS.

Months.	Police Fund.	Contingent Fund.	Total.
January	\$ 26,148 16	\$ 93 70	\$ 26,241 86
February	25,989 88	239 44	26,229 32
March	25,612 91	92 81	25,705 72
April	25,846 11	233 78	26,079 89
May	25,978 22	406 22	26,384 44
June	28,083 70	685 11	28,768 81
July	26,864 67	376 98	27,241 65
August	26,276 78	161 28	26,438 06
September	33,594 10	229 43	33,823 53
October	32,296 77	922 17	33,218 94
November	33,332 95	282 88	33,615 83
December	51,435 02	353 73	51,788 75
Total	\$ 361,459 27	\$ 4,077 53	\$ 365,536 80

CLOTH ACCOUNT.

RESOURCES.			
Balance January 1, 1893		\$	624 19
Sold 330 2-8 yards of Summer cloth	\$	826 48	
" 319 4-8 " doeskin		639 00	
" 103 6-8 " beaver.....		415 00	
" 21 1/2 " dress cloth		84 50	
" 30 helmets.....		75 00	
			2,039 98
Total resources		\$	2,661 07
DISBURSEMENTS.			
Paid for 359 1/2 yards of Summer cloth.....	\$	799 96	
" 367 1/2 " doeskin.....		638 44	
" 98 " beaver.....		364 30	
" 32 helmets.....		80 00	
" buttons		27 00	
" cloth free to officers.....		12 31	
" express charges on cloth.....		21 30	
			1,943 31
Balance January 1, 1894		\$	720 76
CLOTH ON HAND.			
23 1/2 yards of Summer cloth.....	\$	57 81	
57 1/2 " doeskin.....		115 75	
10 " beaver.....		40 00	
8 1/2 " dress cloth.....		34 00	
19 helmets		47 50	
2 caps.....		2 00	
			297 06
Total amount in Cloth Fund.....		\$	1,017 82

MARKET FUND.

Receipts and Disbursements in 1893.

RESOURCES.		
Balance January 1, 1893.....		\$ 7,340 98
Market rents and premiums.....	\$ 29,484 13	
Licenses.....	13,085 00	
Hay Weighers.....	2,651 15	
City Sealer.....	2,929 05	
Tax refunded.....	523 63	
Lamps.....	2 00	
Western weighing machines.....	10 22	
		48,635 18
Total resources.....		\$ 55,976 16
DISBURSEMENTS.		
Salaries of market officers.....	\$ 7,500 00	
Salaries of City Sealer and Assistant.....	2,187 50	
Salaries of Hay Weighers.....	1,500 00	
Repairs of buildings.....	2,348 92	
Lighting of market houses.....	3,633 08	
Cleaning market grounds.....	3,109 65	
Sprinkling market grounds.....	1,029 94	
Contingent expenses of markets.....	1,649 19	
Contingent expenses of City Sealer.....	100 30	
Contingent expenses of Hay Weighers.....	202 06	
Horse and wagon for Assistant Deputy markets.....	325 00	
Horse and wagon for City Sealer.....	325 00	
Taxes.....	278 12	
Transfer to Street Fund.....	19,754 00	
Transfer to Workhouse Fund.....	10,000 00	
Transfer to General Fund.....	170 00	
Total disbursements.....		54,112 76
Balance January 1, 1894.....		\$ 1,863 40

CITY SEALER.

Receipts and Disbursements of the City Sealer in 1893.

RECEIPTS.		
Total amount received for sealing weights and measures.....		\$ 2,929 05
DISBURSEMENTS.		
Salaries of the City Sealer and Assistant.....	\$ 2,187 50	
Horse and wagon for the Sealer.....	325 00	
Contingent expenses.....	100 30	
		2,612 80
Receipts over disbursements.....		\$ 316 25

HAY WEIGHERS.

Receipts and Disbursements of the Weighers of Hay in 1893.

RECEIPTS.		
From Gustav Kitzsteiner, Central Market scales.....	\$ 2,029 25	
From Wm. Poehlman, cor. Lorain and Harbor streets.....	313 65	
From Geo. Ingham, cor. Pearl and Willey streets.....	215 00	
From Geo. D. Nelson, 27th Ward	93 25	
Total		\$ 2,651 15
DISBURSEMENTS.		
Salaries of Weighers—		
Gustav Kitzsteiner	\$ 937 50	
Wm. Poehlman.....	250 00	
Geo. Ingham	187 50	
Geo. D. Nelson	125 00	
Total		1,702 06
Receipts over disbursements.....		\$ 949 09

EXPENSES OF THE

Stations.	Land.	Buildings.	Rents.	Repairs and Furniture.	Fuel.	Lighting.	Supplies, Printing and Stationery.	Laundry Work.	Patrol Service, Construction and Apparatus.	Horses.
1st Precinct.....	\$. . .	18624 83	\$.....	\$ 663 61	\$ 923 53	\$ 667 19	\$ 186 70	\$ 58 11	\$.....	\$.....
2d "				58 85	180 90	92 32	34 52	21 25		
3d "				59 44	91 27	98 64	29 75	36 77		
4th "			500 00	52 79	95 10	63 36	18 70	24 00		
5th "			144 00	47 46	49 77	51 36	20 06	17 92		
6th "				142 96	110 36	70 56	41 75	20 26		
7th "				170 97	75 84	73 52	21 42	24 00		
8th "				640 40	988 99	504 14	50 83	78 75		
9th "				22 27	100 36	53 84	18 64	23 00		
10th "				45 30	118 44	76 40	20 57	14 50		
11th "	2400 00	7883 95	74 63	621 25	94 48	73 14	29 87	19 87		
Patrol Sta. No. 1.....		175 50		49 73	42 10	71 50	49 43	9 00	197 95	585 00
" " " 2.....				31 78			63 71	9 00	116 70	250 00
" " " 3.....				134 65		48 72	38 13	8 75	137 30	200 00
" " " 4.....	2500 00	4103 83		109 24	19 05	2 32	32 72		514 00	350 00
Patrol System.....				28 91		23 68	2 72		1822 87	
Detectives				157 45			13 90			
General Account.....				776 70		7 84	2001 42	10 00		
Pound Keepers										
Salaries of Force.....										
Total	\$4000 00	\$30748 11	\$ 718 63	\$3813 76	\$2890 19	\$1978 53	\$2645 84	\$ 375 18	\$2788 82	\$1385 00

DIFFERENT POLICE STATIONS.

Morse Shoeing.	Horse Feed and Bedding.	Telegrams and Secret Service.	Rent of Telephones.	Livery.	Meals of Prisoners.	Equipments.	Incidentals.	Pound Keepers.	Special Taxes.	Salaries.	Total.
\$.....	\$.....	\$ 117 75	\$ 25 00	\$.....	\$ 168 35	\$.....	\$ 273 00	\$.....	\$ 240 88	\$.....	\$ 21,928 95
			25 00		5 46		13 00				431 30
			25 00				3 60		49 19		393 66
			25 00		1 08		14 60				794 63
			25 00				13 20				368 77
			25 00	1 50			2 40				414 79
			25 00				75				410 34
		18 50	25 00	4 00	52 20	1 65	69 55		40 00		2,474 01
			25 00				5 20				248 31
		25	25 00		1 59		3 25		49 79		355 09
			25 00				2 00				11,224 19
146 00	531 62		25 00				38 00				1,920 83
103 60	390 49		25 00				7 00				997 28
134 75	369 23		25 00				49 53				1,146 06
14 00	48 10						17 61				7,701 87
			50 00	8 00			5 70				1,941 88
		33 36	25 00	33 50			17 50				280 71
		95 83	196 83	81 00		342 23	702 35				4,213 20
								1,204 70			1,204 70
										307,086 23	307,086 23
\$ 398 35	\$ 1,339 44	\$ 265 69	\$ 620 83	\$ 128 00	\$ 228 68	\$ 344 63	\$ 1,256 33	\$ 1,204 70	\$ 379 86	\$ 307,086 23	\$ 365,536 80

POLICE FORCE.

On the first day of January, 1892, as appears from the last report, the Police Force of the city, including all other employes of the Department, consisted of 1 Superintendent, 1 Deputy Superintendent, 1 Secretary, 1 Police Surgeon, 5 Captains, 22 Lieutenants, 9 Detectives, 17 Sergeants, 252 Patrolmen, 4 Janitors, 1 Fireman, 1 Operator; total, 315.

The total number of men constituting the Police Force at date is 307, and all other employes of the Department, 5; total, 312; viz.:

1 Superintendent.
 1 Deputy Superintendent.
 1 Secretary.
 1 Police Surgeon.
 5 Captains.
 22 Lieutenants.
 9 Detectives.
 17 Sergeants.
 250 Patrolmen.
 3 Janitors.
 1 Fireman.
 1 Operator.

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Of the 250 Patrolmen, 1 is detailed as Superintendent of Patrol Service, 2 as Operators and 1 as Lineman.

This Force and Officers are distributed for duty in the different places and Precincts throughout the city as follows:

DIRECTOR OF POLICE, ROOM 119, CITY HALL.

	Superintendent.	Dep'ty Superintendent.	Secretary.	Police Surgeon.	Captains.	Lieutenants.	Detectives.	Sergeants.	Patrolmen.	Operators.	Janitors.	Fireman.	Total.
POLICE HEADQUARTERS:													
Room 119.....	1												1
" 117.....			1	1				2	1				5
" 116.....									4	1			5
" 216.....	1				1		9						11
1st Precinct—Champlain street.....					2	2		3	59		1	1	68
2d " Oregon street.....						2		1	16				19
3d " Forest street.....					1	2		1	18		1		23
4th " Willson avenue.....						2		1	17				20
5th " Guard street.....						2		1	13				16
6th " Willson avenue.....						2		1	12				15
7th " Wales street.....						2		1	11				14
8th " Detroit street.....					1	2		3	34		1		41
9th " Barber avenue.....						2		1	14				17
10th " Swiss street.....						2		1	12				15
11th " Doan street.....						2		1	15				18
Patrol Station No. 1—Long street.....									6				6
" " 2—State street.....									6				6
" " 3—Oregon street.....									6				6
" " 4—Willson ave.....									6				6
Total.....	1	1	1	1	5	22	9	17	250	1	3	1	312

DEPARTMENT OF POLICE.

THE FORCE, ON DECEMBER 31, 1893.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Superintendent.....	Henry Hoehn.....	Germany.....	May 1, 1866.....	
Deputy Superintendent..	James McMahon.....	Ireland.....	May 1, 1866.....	
Secretary.....	John Vanek.....	Bohemia.....	July 1, 1887.....	
Surgeon.....	F. B. Norton.....	United States.....	September 13, 1887.....	
Captain.....	E. K. Hutchinson.....	United States.....	April 12, 1876.....	
".....	M. F. Madigan.....	Ireland.....	May 1, 1866.....	
".....	A. S. Gates.....	United States.....	November 13, 1871.....	
".....	F. R. Humphrey.....	England.....	September 7, 1871.....	
".....	M. English.....	Ireland.....	April 8, 1871.....	
Lieutenant.....	Conrad Koch.....	Germany.....	May 30, 1866.....	
".....	Frank Wagner.....	Germany.....	June 23, 1869.....	
".....	John Shriver.....	United States.....	April 6, 1870.....	
".....	John Barrow.....	United States.....	August 8, 1867.....	
".....	S. Kushman.....	United States.....	April 25, 1868.....	
".....	Thomas Thompson.....	England.....	May 15, 1867.....	
".....	Josiah Johnson.....	United States.....	July 19, 1871.....	
".....	John Dunn.....	United States.....	December 30, 1870.....	

Captain and Chief of Detectives.

DEPARTMENT OF POLICE.

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THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Lieutenant	George Kadel	Germany	April 29, 1870.	
"	George W. Broadwell	United States.	April 14, 1877.	
"	P. A. Seales	"	November 2, 1871.	
"	Jacob Stein	Germany	July 18, 1866	
"	John Burns	Ireland	May 8, 1868.	
"	A. Eitelman	Germany	May 1, 1866.	
"	Charles Tressel	"	November 29, 1869	
"	John O'Laughlin	Ireland	February 12, 1873.	
"	E. W. Bradley	United States.	April 29, 1875.	
"	W. A. Sherman	"	November 6, 1872.	
"	Geo. J. Griffin	"	July 12, 1870	
"	Geo. E. Corner	"	April 20, 1880.	
"	Wm. Jenkins	England	January 20, 1882	
"	Patrick Corkill	Ireland	April 13, 1869	
Detective	J. J. Lehrer	Germany	May 1, 1866	
"	A. A. Lawrence	England	May 1, 1866.	
"	John Reeves	Ireland	May 13, 1875	
"	F. Gallagher	"	September 7, 1871.	

DEPARTMENT OF POLICE.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Detective.....	A. McMillan.....	Canada.....	February 23, 1872.....	
".....	E. T. Grainger.....	United States.....	September 7, 1871.....	
".....	Francis Douglas.....	Ireland.....	November 13, 1871.....	
".....	John F. Sprosty.....	Bohemia.....	November 6, 1872.....	
".....	James Doran.....	Canada.....	April 15, 1884.....	
Sergeant.....	H. A. Cordes.....	United States.....	July 29, 1868.....	
".....	J. W. Varner.....	".....	January 21, 1878.....	
".....	G. F. Mog.....	".....	August 3, 1881.....	
".....	M. F. Wood.....	".....	May 20, 1877.....	
".....	D. W. McCready.....	".....	March 6, 1878.....	
".....	John Buechler.....	Germany.....	May 1, 1872.....	
".....	Chas. O. Klaus.....	United States.....	May 2, 1882.....	
".....	J. C. Denzer.....	".....	November 27, 1878.....	
".....	M. J. Regan.....	Ireland.....	June 6, 1882.....	
".....	Hugh Macerson.....	United States.....	August 7, 1883.....	
".....	John Schmundk.....	".....	January 15, 1881.....	
".....	L. A. DeCelle.....	".....	March 1, 1881.....	
".....	C. E. Parker.....	".....	December 28, 1882.....	

Detailed to Secretary.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Sergeant.....	H. T. Fehlhaber.....	Germany.....	April 6 1877.....	
".....	W. S. Rowe.....	United States.....	May 18, 1880.....	Detailled to Secretary.
".....	Silas Pierce.....	".....	April 22, 1886.....	
".....	John O'Donnell.....	".....	October 28, 1884.....	Detailled as Court officer.
Patrolman No. 1.....	Jerry Murphy.....	".....	April 16, 1890.....	Detailled as Superintendent Patrol Service.
".....	Henry Brunner.....	".....	March 11, 1882.....	
".....	Joseph Stadler.....	Germany.....	September 16, 1876.....	
".....	Henry Kiel.....	".....	July 16, 1892.....	
".....	J. W. Clark.....	United States.....	May 20, 1884.....	
".....	A. J. Marx.....	Germany.....	September 14, 1870.....	
".....	J. T. Bashold.....	".....	January 8, 1875.....	
".....	Geo. B. Erwin.....	United States.....	April 19, 1881.....	
".....	Charles Reppenhagen.....	Germany.....	January 7, 1882.....	
".....	Philip Siegrist.....	".....	May 8, 1888.....	
".....	M. Ostermeyer.....	".....	August 7, 1887.....	
".....	B. Rosenfelder.....	".....	May 1, 1866.....	Court duty.
".....	Leo. J. Kolaszewski.....	Poland.....	May 8, 1888.....	
".....	Win. D. Jones.....	Wales.....	June 18, 1889.....	
".....	C. C. Thomas.....	United States.....	September 21, 1872.....	

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service Under Metropolitan Law.	Remarks.
Patrolman No. 16.....	John Veigel.....	United States.....	December 27, 1884.....	Patrol Station No. 2.
" 17.....	Wm. Hildebrand.....	Germany.....	September 21, 1872.....	Detailed as Turnkey.
" 18.....	Philip Haggerty.....	Ireland.....	May 1, 1866.....	Detailed at Union Passenger Depot.
" 19.....	Daniel G. Stanton.....	United States.....	January 7, 1892.....	
" 20.....	Michael Fergus.....	".....	September 11, 1888.....	
" 21.....	E. C. Meon.....	".....	July 10, 1893.....	
" 22.....	Joseph O'Brien.....	Ireland.....	December 28, 1882.....	
" 23.....	Wm. M'jechraine.....	Ile of Man.....	February 23, 1872.....	
" 24.....	Frank Grime.....	United States.....	February 12, 1891.....	
" 25.....	Henry Jacobson.....	Germany.....	May 8, 1888.....	
" 26.....	Joseph Krenzel.....	".....	December 2, 1875.....	Patrol Station No. 3.
" 27.....	P. J. Neary.....	Ireland.....	April 17, 1888.....	
" 28.....	E. Hathaway.....	United States.....	April 20, 1872.....	Detailed as Turnkey.
" 29.....	James Hanley.....	Ireland.....	April 22, 1886.....	
" 30.....	Frank Dolan.....	United States.....	February 12, 1891.....	Patrol Station No. 3.
" 31.....	Thomas J. Carlen.....	".....	March 9, 1892.....	
" 32.....	Wm. Vogel.....	Germany.....	July 21, 1871.....	
" 33.....	G. A. Domino.....	".....	January 17, 1875.....	

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service Under Metropolitan Law.	Remarks.
Patrolman No. 34.....	Mathew Marsh	Bohemia.....	January 13, 1885.....	
" 35.....	W. R. Hayman.....	England.....	May 1, 1888.....	N. Y. C. & St. L. Ry. Depot.
" 36.....	J. W. Morgan.....	Wales.....	February 12, 1891.....	
" 37.....	Mathew Conway.....	United States.....	May 8, 1888.....	Patrol Station No. 4.
" 38.....	Michael Mulles.....	Ireland.....	October 8, 1888.....	
" 39.....	John Cummings.....	Canada.....	March 25, 1889.....	
" 40.....	J. M. Brooks.....	Germany.....	May 4, 1880.....	Patrol Station No. 4.
" 41.....				Vacancy.
" 42.....	E. Durchschlag.....	United States.....	December 7, 1886.....	
" 43.....	Chas. N. Lyle.....	Canada.....	May 8, 1888.....	
" 44.....	Christ. Hennes.....	Germany.....	September 23, 1879.....	
" 45.....	Wm. M. Tucker.....	United States.....	June 3, 1881.....	Patrol Station No. 2.
" 46.....	Jacob Gans.....	Germany.....	May 30, 1866.....	
" 47.....	Daniel Ruddock.....	Ireland.....	June 16, 1892.....	
" 48.....	Charles Saunders.....	England.....	January 19, 1886.....	
" 49.....	Joseph Rutoka.....	Bohemia.....	September 15, 1892.....	
" 50.....	Daniel Mack.....	Ireland.....	October 17, 1892.....	
" 51.....	James Trojan.....	Bohemia.....	July 16, 1892.....	

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 52.....	M. M. McElhanev.....	United States.....	May 4, 1886.....	
" 53.....	Thomas Cleary.....	Ireland.....	April 6, 1892.....	
" 54.....	A. A. Heimberger.....	United States.....	July 22, 1883.....	
" 55.....	Thomas Martinec.....	Bohemia.....	October 17, 1892.....	
" 56.....	Charles Sanders.....	Germany.....	February 18, 1887.....	
" 57.....	W. J. Flanigan.....	United States.....	May 22, 1879.....	
" 58.....	Herman Prange.....	Germany.....	January 19, 1886.....	
" 59.....	Wm. Watt.....	Scotland.....	May 18, 1886.....	
" 60.....	P. J. Carbeck.....	United States.....	August 1, 1882.....	
" 61.....	John C. Kampfe.....	".....	November 20, 1883.....	Patrol Station No. 4.
" 62.....	Warren O. Quayle.....	".....	July 10, 1883.....	
" 63.....	John Reiber.....	".....	January 7, 1892.....	
" 64.....	H. W. Motter.....	".....	May 14, 1884.....	
" 65.....	John Sprankel.....	Germany.....	November 28, 1874.....	
" 66.....	August Sommer.....	".....	December 24, 1883.....	Patrol Station No. 1.
" 67.....	Fred Doering.....	United States.....	March 6, 1888.....	
" 68.....	John Quinn.....	Ireland.....	May 16, 1871.....	
" 69.....	Fred Wagner.....	United States.....	December 28, 1892.....	

THE FORCE ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 70.....	J. H. Koehler.....	United States.....	May 4, 1886.....	
" 71.....	Jay Cole.....	".....	July 16, 1892.....	
" 72.....	Henry Carroll.....	Ireland.....	June 15, 1886.....	
" 73.....	Paul J. Luehrs.....	Holland.....	April 28, 1872.....	
" 74.....	T. H. Bidlingmyer.....	United States.....	March 6, 1888.....	
" 75.....	F. H. Brooks.....	".....	July 22, 1884.....	
" 76.....	W. Chapman.....	".....	January 19, 1886.....	
" 77.....	George A. Strief.....	".....	January 7, 1892.....	
" 78.....	Martin Reddy.....	Ireland.....	September 18, 1888.....	
" 79.....	Patrick Hines.....	United States.....	February 26, 1889.....	
" 80.....	C. B. Lee.....	".....	February 12, 1891.....	Patrol Station No. 2
" 81.....	Alfred Walker.....	England.....	June 29, 1886.....	
" 82.....	John Ginnelly.....	Ireland.....	February 12, 1891.....	Detailed as Lineman.
" 83.....	Joseph Curphy.....	United States.....	January 7, 1892.....	
" 84.....	F. B. Eustace.....	".....	April 19, 1875.....	Detailed as Turnkey.
" 85.....	John McCormack.....	Ireland.....	April 3, 1874.....	
" 86.....	A. J. Barnes.....	United States.....	September 7, 1871.....	
" 87.....	A. M. Blood.....	".....	November 28, 1874.....	

DEPARTMENT OF POLICE.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 88.....	Daniel Cantillon.....	Ireland.....	January 29, 1876.....	Patrol Station No. 1.
" 89.....	John Britton.....	".....	December 24, 1883.....	
" 90.....	L. J. Pillars.....	United States.....	July 16, 1892.....	
" 91.....	Frank L. Blackmur.....	".....	January 28, 1892.....	
" 92.....	M. F. Silsby.....	".....	March 26, 1873.....	
" 93.....	J. H. Robinson.....	".....	July 10, 1883.....	
" 94.....	Patrick Kennedy.....	Ireland.....	June 10, 1875.....	Patrol Station No. 3.
" 95.....	Henry Kramer.....	United States.....	December 24, 1883.....	
" 96.....	N. H. Sheehan.....	Ireland.....	April 12, 1887.....	
" 97.....	Henry Seibel.....	United States.....	February 5, 1873.....	
" 98.....	Joseph Ralph.....	Ireland.....	May 8, 1898.....	
" 99.....	F. J. Lambert.....	Germany.....	November 2, 1871.....	
" 100.....	F. C. Lauer.....	".....	November 23, 1872.....	
" 101.....	Burton Holcomb.....	United States.....	October 8, 1890.....	
" 102.....	Frank McDonnell.....	".....	October 7, 1884.....	
" 103.....	Frank Kulas.....	Bohemia.....	May 16, 1878.....	Detailed at L. E. & W. R. R. Depot.
" 104.....	John H. Mangau.....	Ireland.....	September 18, 1875.....	Patrol Station No. 3.
" 105.....	Charles McMasters.....	United States.....	November 27, 1879.....	

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 106.....	George Demaline	United States	March 18, 1880.....	
" 107.....	Charles Dangler.....	"	April 9, 1877	
" 108.....	Lewis C. Ruggles.....	"	January 7, 1892.....	
" 109.....	T. J. Gallagher	Ireland.....	June 5, 1888.....	
" 110.....	Wm. Schneider.....	Germany.....	June 3, 1891.....	
" 111.....	Patrick Farragher.....	Ireland.	February 26, 1899.....	
" 112.....	John J. McTigue.....	United States.....	October 1, 1882.....	
" 113.....	Stewart Hart	Canada.....	November 13, 1883.....	
" 114	John McGraw	Ireland	April 6, 1877	Detailed at Union Passenger Depot.
" 115.....	Wm. O'Brien.....	"	January 13, 1873	
" 116.....	Ernst A. Bleasdale	United States.....	September 18, 1888.....	
" 117.....	Jacob Rees.....	"	June 10, 1882.....	
" 118.....	Philip Heege.....	Germany	February 5, 1873.....	
" 119.....	August Brandt	"	April 12, 1886.....	
" 120.....	Henry A. Kerr.....	United States	July 16, 1892.....	
" 121.....	M. H. Stofer.....	"	February 5, 1873	Detailed as License Officer.
" 122.....	James T. Madden	"	December 23, 1885	
" 123.....	Wm. Schneearline.....	"	November 26, 1874	Detailed for Court Duty.

DEPARTMENT OF POLICE.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 124.....	Geo. W. Immel.....	United States.....	July 16, 1892.....	
" 125.....	S. L. Miller.....	".....	January 25, 1872.....	
" 126.....	Charles Schroder.....	".....	November 27, 1878.....	
" 127.....	Frederick Fischer.....	Germany.....	December 20, 1887.....	
" 128.....	M. Cunneen.....	Ireland.....	July 3, 1883.....	
" 129.....	Thomas Mylett.....	".....	January 7, 1892.....	Patrol Station No. 3.
" 130.....	John McCabe.....	".....	July 2, 1883.....	
" 131.....	J. J. Doyle.....	Canada.....	June 6, 1893.....	Detailed for desk duty.
" 132.....	L. E. Bouker.....	United States.....	February 12, 1891.....	Patrol Station No. 2.
" 133.....	Henry Hageman.....	".....	July 13, 1886.....	
" 134.....	E. R. Bennett.....	".....	November 7, 1882.....	
" 135.....	John Carroll.....	Ireland.....	November 7, 1882.....	Detailed as Turnkey.
" 136.....	Edward Corrigan.....	".....	August 9, 1887.....	
" 137.....	John Gavin.....	".....	November 3, 1885.....	
" 138.....	Parker Hare.....	United States.....	November 7, 1882.....	
" 139.....	Thomas Commerford.....	Ireland.....	December 31, 1896.....	
" 140.....	Alfred Smith.....	England.....	July 10, 1883.....	
" 141.....	(Geo. J. Keidel).....	United States.....	July 10, 1883.....	

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 142.....	Michael O'Hara.....	United States.....	August 7, 1883.....	
" 143.....	Joseph Whittaker.....	".....	November 13, 1883.....	
" 144.....	John J. Connell.....	".....	December 20, 1887.....	
" 145.....	S. S. Minor.....	".....	August 7, 1883.....	
" 146.....	H. L. Wilmore.....	".....	January 7, 1892	
" 147.....	C. J. Creter.....	Germany.....	August 7, 1883.....	
" 148.....	W. W. Mackey.....	United States.....	January 7, 1892.....	
" 149.....	Patrick Ruddy.....	Ireland.....	August 7, 1883.....	
" 150.....	Leonard Cummiskey.....	United States.....	February 26, 1889.....	
" 151.....	Wm. Roberts.....	England.....	February 12, 1891.....	
" 152.....	Wm. R. Wilson.....	Canada.....	January 7, 1892.....	
" 153.....	F. E. Brown.....	United States.....	February 21, 1888.....	
" 154.....	James Cullen.....	Ireland.....	August 7, 1883.....	
" 155.....	Geo. A. Kadel.....	United States.....	June 3, 1886.....	
" 156.....	Michael McGrath.....	Ireland.....	February 26, 1889.....	
" 157.....	Chas. L. Weisbarth.....	United States.....	March 20, 1888.....	
" 158.....	Richard Barrow, Jr.....	".....	February 18, 1887.....	
" 159.....	Wm. Fitzgerald.....	".....	August 7, 1883.....	Patrol Station No. 2.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 160.....	John E. Gallagher.....	United States.....	July 17, 1888.....	
" 161.....	August Wedig.....	Germany.....	August 7, 1883.....	
" 162.....	Frank Purma.....	Bohemia.....	December 5, 1892.....	
" 163.....	E. F. Washington.....	United States.....	August 7, 1893.....	Patrol Station No. 4.
" 164.....	A. McKnight.....	".....	August 7, 1893.....	Patrol Station No. 2.
" 165.....				Vacancy.
" 166.....	John Mahony.....	Canada.....	August 21, 1883.....	
" 167.....	Joseph Sweeney.....	Ireland.....	August 21, 1883.....	
" 168.....	Kinsy Fife.....	United States.....	June 14, 1887.....	
" 169.....	Edward Cantwell.....	".....	January 7, 1892.....	
" 170.....	F. B. Sanford.....	".....	December 2, 1892.....	
" 171.....	M. K. Cary.....	".....	October 22, 1898.....	
" 172.....	Frank V. Bash.....	Poland.....	June 21, 1887.....	
" 173.....	M. Masterson.....	Ireland.....	January 11, 1887.....	
" 174.....	C. L. Mescham.....	United States.....	January 11, 1887.....	
" 175.....	John Anderson, Jr.....	".....	January 13, 1887.....	
" 176.....	H. J. Simpson.....	".....	February 5, 1889.....	
" 177.....	Alfred Malley.....	Ireland.....	January 7, 1892.....	

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 178.....	John Shipp.....	England.....	December 2, 1892.....	
" 179.....	Wm. McAleer.....	United States.....	March 22, 1887.....	
" 180.....	R. C. McDonnell.....	".....	March 15, 1887.....	Detailled as operator.
" 181.....	Frank A. Kelly.....	".....	March 15, 1887.....	Patrol Station No. 4.
" 182.....	Thomas W. Whalen.....	".....	June 4, 1889.....	
" 183.....	James Hilliard.....	Ireland.....	February 1, 1889.....	
" 184.....	C. A. DeHondt.....	United States.....	February 1, 1889.....	
" 185.....	Miles Moulton.....	".....	February 1, 1889.....	
" 186.....	Thomas J. Hogan.....	Ireland.....	February 1, 1889.....	
" 187.....	R. Manning.....	United States.....	August 1, 1883.....	
" 188.....	D. D. Seely.....	".....	February 1, 1889.....	
" 189.....	J. E. Wade.....	".....	February 1, 1889.....	
" 190.....	Joseph C. Kaestle.....	".....	December 2, 1892.....	
" 191.....	M. J. Howlett.....	".....	February 1, 1889.....	Patrol Station No. 1.
" 192.....	Wm. C. Sadler.....	".....	January 7, 1892.....	
" 193.....	James Collins.....	".....	February 1, 1889.....	
" 194.....	Otto Jirele.....	".....	February 1, 1889.....	
" 195.....	Thomas McGinty.....	".....	February 1, 1889.....	

DEPARTMENT OF POLICE.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 196.....	Fred Winchester.....	United States.....	February 1, 1889.....	
" 197.....	Roland McReynolds.....	"	January 7, 1892.....	
" 198.....	N. I. Engelhart.....	Germany.....	February 1, 1889.....	
" 199.....	T. J. Comerford	United States.....	February 1, 1889.....	
" 200.....	E. L. Potts	"	February 1, 1889.....	Detailed as Operator.
" 201.....	Rush J. Douglass.....	"	January 28, 1892.....	
" 202.....	H. A. Gerow.....	Canada.....	February 1, 1889.....	
" 203.....	James Meehan.....	England.....	July 16, 1889.....	
" 204.....	Patrick Connors.....	"	July 16, 1889.....	
" 205.....	Ephraim Brown.....	United States.....	July 16, 1889.....	
" 206.....	Myron S. Brown.....	"	January 7, 1892.....	
" 207.....	John Rowlands.....	"	January 7, 1892.....	
" 208.....	Wm. J. Thorpe.....	"	July 16, 1889.....	
" 209.....	F. J. Moore.....	Ireland.....	July 16, 1889.....	
" 210.....	N. J. Shattuck.....	United States.....	July 16, 1889.....	
" 211.....	Michael Connors.....	"	January 7, 1892.....	
" 212.....	A. C. McElroy.....	"	July 16, 1889.....	
" 213.....	Jacob Burghart.....	"	July 16, 1889.....	
				Patrol Station No. 1.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 214.....	M. Fitzgerald.....	United States.....	July 16, 1889.....	
" 215.....	John J. Richards.....	"	July 16, 1889.....	
" 216.....	P. J. Mylett.....	Ireland.....	July 16, 1889.....	
" 217.....	Fred Kohler.....	United States.....	July 16, 1889.....	
" 218.....	Geo. W. Carey.....	"	July 16, 1889.....	
" 219.....	James J. Martin.....	"	July 16, 1889.....	
" 220.....	John E. Jones.....	"	July 16, 1889.....	
" 221.....	Michael Gallagher.....	Ireland.....	July 16, 1889.....	
" 222.....	Peter E. Hill.....	United States.....	January 7, 1892.....	
" 223.....	J. H. Kleinman.....	"	July 16, 1889.....	
" 224.....	J. E. Gannon.....	"	July 16, 1889.....	
" 225.....	Albert Isaac.....	Canada.....	July 16, 1889.....	
" 226.....	Martin B. Bruder.....	Ireland.....	January 7, 1892.....	
" 227.....	W. H. Mooney.....	England.....	July 16, 1889.....	
" 228.....	J. M. Farr.....	United States.....	September 3, 1889.....	
" 229.....	Joseph Kilbane.....	Ireland.....	July 16, 1889.....	
" 230.....	Hugh McTigue.....	United States.....	July 16, 1889.....	
" 231.....	Thomas Madden.....	"	July 16, 1889.....	

Detailed to desk duty.

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 232.....	Wm. L. Foulks.....	United States	January 7, 1892.....	
" 233.....	Wm. O'Laughlin.....	"	July 16, 1889	
" 234.....	Michael Gilbride.....	"	July 16, 1889	
" 235.....	Wm. Bennett.....	Ireland	July 16, 1889	Patrol Station No. 3.....
" 236.....	M. J. Dempsey.....	"	July 16, 1889	
" 237.....	E. J. Hannan.....	United States	July 16, 1889	Patrol Station No. 1.....
" 238.....	Frank Hoenig.....	"	July 16, 1889	Patrol Station No. 1.....
" 239.....	Peter Regan.....	Ireland	July 16, 1889	
" 240.....	E. W. Boulton.....	United States.....	July 16, 1889	
" 241.....	J. M. Morgan.....	"	July 16, 1889	
" 242.....	Edward Bayton.....	England.....	July 16, 1889	
" 243.....	Thos. H. Porter.....	United States	July 16, 1889	
" 244.....	Evan Corns.....	Wales.....	July 16, 1889	
" 245.....	H. D. Lloyd.....	United States	July 16, 1889	
" 246.....	Wm. Guenther.....	"	July 16, 1889	
" 247.....	Charles H. Durfy.....	"	July 16, 1889	
" 248.....	Luke Delaney.....	"	January 7, 1892.....	
" 249.....	Maurice Donahue.....	"	May 6, 1892.....	

THE FORCE, ON DECEMBER 31, 1893—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 250.....	Chas. Shafranek.....	Bohemia	July 24, 1889.....	
" 251.....	George Holdans.....	Scotland	March 25, 1883.....	Patrol Station No. 4.....
" 252.....	Chas. Hawkins	United States	July 24, 1889.....	

NATIONALITY OF MEMBERS OF THE POLICE FORCE.

BIRTH PLACE.

United States.....	170
Ireland.....	56
Germany.....	39
England.....	14
Canada.....	10
Bohemia.....	9
Scotland.....	2
Poland.....	2
Isle of Man.....	1
Heligoland.....	1
Wales.....	3
Total.....	307

EMPLOYEES OF THE DEPARTMENT.

Rank.	Name.	Appointed.	Remarks.
Operator.....	E. H. McLean.....	August 1, 1888...	Patrol service.
Janitor.....	Frank Sweeney.....	June 1, 1893.....	Central Station.
Janitor.....	James Keefe.....	May 9, 1892.....	3d Prec. Station.
Janitor.....	Frank Rosinsky.....	August 1, 1891...	8th Prec. Station.
Fireman.....	Wm. McKanna.....	October 1, 1893...	Central Station.

CHANGES IN THE DEPARTMENT DURING THE YEAR.

	Superintendent.	Deputy Superintendent.	Captains.	Lieutenants.	Detectives.	Sergeants.	Patrolmen.	Secretary.	Surgeon.	Operators.	Janitors.	Fireman.	Total.
Remaining Dec. 31, 1892.....	1	1	5	22	9	17	252	1	1	1	4	1	315
Appointed.....							8						
Promoted.....	1		1	1	1	1							
Total increase.....	2		6	23	10	18	260	1	1	1	4	1	327
Resigned.....							2						
Dismissed.....							2				1		
Pensioned.....	1						2						
Died.....					1		2						
Promoted.....			1	1		1	2						
Total decrease.....			1	1	1	1	10				1		15
Remaining Dec. 31, 1893.....	1	1	5	22	9	17	250	1	1	1	3	1	312

**PROMOTIONS OF MEMBERS OF THE FORCE DURING
THE YEAR.**

Rank.	Name.	Promoted to	Date.
Captain.....	Henry Hoehn.....	Supt. of Police.....	July 1, 1893.
Lieutenant.....	Michael English.....	Captain.....	July 10, 1893.
Patrolman No. 165.....	James Doran.....	Detective.....	July 12, 1893.
Sergeant.....	Patrick Corkill.....	Lieutenant.....	July 21, 1893.
Patrolman No. 54.....	John O'Donnell.....	Sergeant.....	July 21, 1893.

RESIGNATIONS DURING THE YEAR.

Rank.	Name.	Date.
Patrolman No. 62.....	James Lenahan.....	April 24, 1893.
Superintendent.....	J. W. Schmitt.....	July 1, 1893.
Lieutenant.....	Chas. McHannan.....	July 10, 1893.
Patrolman No. 165.....	E. J. Fisher.....	Nov. 11, 1893.

**DISMISSALS OF MEMBERS OF THE FORCE DURING
THE YEAR.**

Rank.	Name.	Date.	Cause.
Patrolman No. 251	Charles A. Harris	January 21, 1893.	Intoxication.
" 187	F. A. Barber	July 20, 1893	{ Unnecessary violence to a prisoner.

OFFICERS PLACED ON PENSION ROLL.

Rank.	Name.	Appointed.	Retired.
Superintendent.....	J. W. Schmitt	May 1, 1866	July 1, 1883.
Patrolman No. 21	Peter Wilson	April 9, 1873	" " "
" 93.....	M. W. Murphy	Sept. 7, 1871.....	" " "
Lieutenant	Chas. McHannan.....	May 8, 1868	" 10, "

OFFICERS DIED DURING THE YEAR.

Rank.	Name.	Appointed.	Died.
Patrolman No. 140.....	James Flavin.....	Dec. 28, 1882	May 16, 1893.
Patrolman No. 41.....	S. D. Mell	April 30, 1873	Dec. 13, 1893.

DEPARTMENT OF POLICE.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.

Name.	Date.	Rank.	No.	Age.	Nativity.	Former Occupation.	Social Condition.
George Haldane.....	March 25, 1893.....	Patrolman.....	251	36	Scotland.....	Baker.....	Married.
E. C. Meon.....	July 10, 1893.....	".....	21	28	United States.....	Machinist.....	"
Warren O. Quayle.....	July 10, 1893.....	".....	62	28	".....	Steam Fitter.....	Single.
James H. Robinson.....	July 10, 1893.....	".....	93	32	".....	Lineman.....	Married.
Alfred Smith.....	July 10, 1893.....	".....	140	34	England.....	Clerk.....	"
Edward J. Fisher.....	July 13, 1893.....	".....	165	34	United States.....	Carpenter.....	"
August A. Heimberger.....	July 22, 1893.....	".....	64	33	".....	Motorman.....	"
R. Manning.....	August 1, 1893.....	".....	187	28	".....	Blacksmith.....	"

SALARIES OF THE MEMBERS OF THE POLICE
DEPARTMENT.

	1893.	1894.
Superintendent.....	\$2,210 per year.	\$2,300 00
Deputy Superintendent.....	2,000 "	2,000 00
Captains.....	1,460 "	1,500 00
Lieutenants.....	1,080 "	1,200 00
Detectives.....	1,060 "	1,200 00
Sergeants.....	1,010 "	1,100 00
Patrolmen.....	900 "	1,000 00
Secretary.....	1,850 "	1,800 00
Surgeon.....	1,000 "	1,000 00
Patrolmen in charge of Patrol Service.....	1,200 "	1,200 00
Operators.....	900 "	1,000 00
Matrons.....		686 68
Janitor at Central Station.....	60 per mo.	\$60 00 per mo.
Janitor at 3d and 8th Precinct Stations.....	55 "	55 00 "
Assistant Janitors at Central Station.....	50 "	50 00 "
Fireman at Central Station.....	50 "	50 00 "
Female janitors.....	18 "	18 00 "

NUMBER OF DAYS LOST BY SICKNESS AND DISABILITY IN EACH MONTH.

Month.	Sickness.	Disability.	Total.
January.....	292	12	304
February.....	327	13	340
March.....	320	1	321
April.....	299	55	354
May.....	160	44	204
June.....	158	30	188
July.....	169	4	173
August.....	220	25	245
September.....	124	40	164
October.....	112	9	121
November.....	260	17	277
December.....	440	77	517
Total.....	2,881	327	3,208

Total amount of days taken by the members of the force during the year under Rule

44 was..... 3,574

Total amount of days taken with leave..... 461

Suspended..... 67

Rule 44 allows each member of the force twelve days leave of absence each year without deduction of pay.

Time lost by sickness and disability is paid in full.

Time taken with leave and suspension is deducted.

APPOINTMENT AND PROMOTION OF OFFICERS

OF CLEVELAND POLICE FORCE.

-
- HENRY HOKKH**, appointed Patrolman, May 1, 1866; Acting Sergeant, July 1, 1871; Sergeant, April 22, 1872; Lieutenant, April 12, 1876; Captain, September 13, 1876; Superintendent of Police, July 1, 1893.
- JAMES McMAHON**, appointed Patrolman and First Sergeant, May 1, 1866; Acting Captain May 15, 1869; Captain, December 1, 1869; Acting Superintendent, June 20, 1870; reappointed Captain, May 17, 1876; Acting Deputy Superintendent, May 3, 1881; Deputy Superintendent, June 28, 1881.
- JOHN VANEK**, appointed Secretary of Board of Police, July 1, 1887; reappointed, under the new law, Secretary of Police, February 12, 1891.
- F. B. NORRTON**, appointed Police Surgeon, September 13, 1887; reappointed under the new law, Police Surgeon, March 14, 1889.
- E. K. HUTCHINSON**, appointed Sergeant, April 12, 1876; Acting Lieutenant, May 16, 1882; Lieutenant, December 30, 1882; Captain, September 15, 1885.
- M. F. MADIGAN**, appointed Patrolman, May 1, 1866; Fifth Sergeant, May 31, 1866; Fourth Sergeant, December 1, 1869; Lieutenant, April 12, 1876; Captain, November 5, 1885.
- A. S. GATES**, appointed Patrolman, November 13, 1871; Acting Sergeant, January 20, 1882; Sergeant, December 30, 1882; Lieutenant, December 4, 1885; Captain, February 19, 1889.
- F. R. HUMPHREY**, appointed Patrolman, September 7, 1871; Acting Sergeant, July 3, 1882; Sergeant, December 30, 1882; Acting Detective, October 19, 1883; Detective, December 18, 1883; Detailed as Chief of Detectives with rank of Captain, February 18, 1890.
- MICHAEL ENGLISH**, appointed Patrolman, April 8, 1871; Acting Sergeant, August 26, 1875; Superintendent's Clerk, July 3, 1882; Lieutenant, February 5, 1884; Captain, July 1, 1883.
- CONRAD KOCH**, appointed Patrolman, May 30, 1866; Roundsman, April 16, 1872; Acting Sergeant, January 25, 1875; Lieutenant, April 12, 1876.
- FRANK WAGNER**, appointed Patrolman, June 23, 1869; Roundsman, December 4, 1874; Sergeant, April 12, 1876; Lieutenant, September 13, 1876.
- JOHN SCHRIEBER**, appointed Patrolman, April 6, 1870; Roundsman, August 7, 1873; Sergeant, April 12, 1876; Acting Lieutenant, April 6, 1877; Lieutenant, April 14, 1877.
- JOHN BARLOW**, appointed Patrolman, August 8, 1867; Acting Sergeant, April 6, 1877; Sergeant, April 14, 1877; Lieutenant, February 5, 1884.
- S. KUSHMAN**, appointed Patrolman, April 25, 1868; Roundsman, January 25, 1875; Acting Sergeant, April 22, 1875; Sergeant, April 12, 1876; Lieutenant, February 5, 1885.
- THOMAS THOMPSON**, appointed Patrolman, May 15, 1867, to September 19, 1870; reappointed Patrolman, November 6, 1872; Acting Sergeant, May 23, 1881; Sergeant, January 20, 1882; Lieutenant, December 4, 1885.

- JOSIAH JOHNSON** appointed Patrolman, July 19, 1871; Roundsman, October 24, 1877; Sergeant, May 23, 1881; Lieutenant, May 4, 1886.
- JOHN DUNK**, appointed Patrolman, December 30, 1870; Acting Sergeant, December 30, 1882; Sergeant, December 18, 1883; Lieutenant, May 4, 1886.
- GEORGE KADL**, appointed Patrolman, April 29, 1870, to September, 1872; reappointed Patrolman, May 21, 1873; Acting Sergeant, December 30, 1882; Sergeant, December, 4, 1885; Lieutenant, April 12, 1887.
- GEORGE BROADWELL**, appointed Patrolman, April 14, 1877; Acting Sergeant, May 16, 1882; Sergeant, December 30, 1882; Lieutenant, May 8, 1888.
- P. A. SEARLES**, appointed Patrolman, November 2, 1871; Acting Roundsman, November 6, 1872; Sergeant, April 12, 1876; Lieutenant, May 8, 1888.
- JACOB STEIN**, appointed Patrolman, July 18, 1866, to October 20, 1866; reappointed Patrolman, September 11, 1863; Sergeant, September 13, 1876; Lieutenant, May 8, 1888.
- JOHN BURNS**, appointed Patrolman, May 8, 1868; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885; Lieutenant, February 19, 1889.
- ANDREW EITELMAN**, appointed Patrolman, May 1, 1866, to January 6, 1868; reappointed, Patrolman, May 8, 1868; Roundsman, December 2, 1875; Sergeant, April 12, 1876; Lieutenant, February 19, 1889.
- CHARLES TRESSSEL**, appointed Patrolman, November 28, 1869; Acting Sergeant, December 4, 1885; Sergeant, May 4, 1886; Lieutenant, September 1, 1891.
- JOHN O'LAUGHLIN**, appointed Patrolman, February 12, 1873; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885; Lieutenant, July 16, 1892.
- E. W. BRADLEY**, appointed Patrolman, April 29, 1875, to April 15, 1876; reappointed Patrolman, August 2, 1876; Acting Sergeant, May 16, 1882; Sergeant, February 5, 1884; Lieutenant, July 16, 1892.
- W. A. SHERMAN**, appointed Patrolman, November 6, 1872; Acting Sergeant, December 18, 1883; Sergeant, February 19, 1889; Lieutenant, July 16, 1892.
- GEORGE J. GRIFFIN**, appointed Patrolman, July 12, 1870; Acting Sergeant, April 15, 1884; Sergeant, May 8, 1888; Lieutenant, July 16, 1892.
- GEORGE E. CORNER**, appointed Patrolman, April 20, 1880; Acting Sergeant, June 7, 1887; Sergeant, January 25, 1892; Lieutenant, July 16, 1892.
- WM. JENKIN**, appointed Patrolman, January 20, 1882; detailed as Acting Sergeant, February 19, 1889; returned to regular patrol duty, May 28, 1889; detailed again as Acting Sergeant, June 4, 1889; appointed Sergeant, December 17, 1889; Lieutenant, July 16, 1892.
- PATRICK CORKILL**, appointed Patrolman, April 13, 1869; Acting Sergeant, December 4, 1885; Sergeant, May 4, 1886; Lieutenant, July 21, 1893.
- J. J. LOHRER**, appointed Patrolman, May 1, 1866; Acting Sergeant, April 16, 1872; Detective, April 12, 1876.
- A. A. LAWRENCE**, appointed Patrolman, May 1, 1866; resigned May 9, 1868; reappointed Patrolman, June 19, 1869; Acting Sergeant, May 16, 1872; Detective, April 12, 1876.
- JOHN REEVES**, appointed Patrolman, May 13, 1875; Special Detective, July 8, 1875; Detective, April 26, 1876.
- F. GALLAGHER**, appointed Patrolman, September 7, 1871; Detective, June 1, 1876.
- A. McMILLAN**, appointed Patrolman, February 23, 1872; Acting Detective, July 10, 1883; Detective, December 18, 1883.
- E. T. GRANGER**, appointed Patrolman, September 7, 1871; Roundsman, December 4, 1874; Sergeant, April 12, 1876; Lieutenant, May 23, 1881; Detective, May 4, 1886.
- FRANCIS DOUGLASS**, appointed Patrolman, November 13, 1871; Detective, April 12, 1887.
- JOHN F. SPONSTY**, appointed Patrolman, November 6, 1872; Emigrant Officer, June 23, 1885; Detective, May 8, 1888.

DEPARTMENT OF POLICE.

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- JAMES DORAN, appointed Patrolman, April 15, 1884; detailed as Detective, July 12, 1893.
- H. A. CORDES, appointed Patrolman, July 29, 1888; Acting Sergeant, May 4, 1888; Sergeant, May 8, 1888.
- J. W. VARNER, appointed Patrolman, January 21, 1878; Acting Sergeant, May 8, 1888; Sergeant, February 19, 1889.
- G. F. MOG, appointed Patrolman, August 3, 1881; Acting Sergeant, May 8, 1888; Sergeant, February 19, 1889.
- M. F. WOOD, appointed Patrolman, May 20, 1877; License Officer, June 23, 1885; detailed to Secretary, February 14, 1888; Sergeant and appointed to Secretary, March 14, 1889.
- D. W. MCCREADY, appointed Patrolman, March 6, 1878; Superintendent's Clerk, June 23, 1885; Sergeant and appointed Clerk to Superintendent, June 18, 1889.
- J. C. DENZER, appointed Patrolman, November 27, 1878; Acting Sergeant, August 23, 1887; returned to patrol duty, May 28, 1889; Acting Sergeant, September 24, 1889; Sergeant, February 12, 1891.
- C. O. KLACE, appointed Patrolman, May 2, 1892; Acting Sergeant, October 2, 1888; returned to patrol duty, May 28, 1889; Acting Sergeant, September 24, 1889; Sergeant, February 12, 1891.
- JOHN BEUHLER, appointed Patrolman, May 1, 1872; Acting Sergeant, August 23, 1887; returned to patrol duty, May 28, 1889; Acting Sergeant, September 24, 1889; Sergeant, February 12, 1891.
- M. J. REGAN, appointed Patrolman, June 6, 1882; Acting Sergeant, September 16, 1890; Sergeant, February 12, 1891.
- HUGH MASTERSON, appointed Patrolman, August 7, 1883; Sergeant, February 12, 1891.
- JOHN SCHMUNK, appointed Patrolman, January 15, 1881; Acting Sergeant, January 28, 1892; Sergeant, July 16, 1892.
- L. A. DECELLE, appointed Patrolman, March 1, 1881; Acting Sergeant, November 5, 1881; Sergeant, July 16, 1892.
- C. E. PARKER, appointed Patrolman, December 28, 1882; Acting Sergeant, September 1, 1891; Sergeant, July 16, 1892.
- H. T. FELHABER, appointed Patrolman, April 6, 1877; Acting Sergeant, February 19, 1889; Sergeant, July 16, 1892.
- W. S. ROWE, appointed Patrolman, May 18, 1890; detailed as License Officer, February 18, 1888; detailed to Secretary, August 1, 1891; Sergeant, July 16, 1892.
- SILAS PIERCE, appointed Patrolman, April 22, 1886; Sergeant, July 16, 1892.
- JOHN O'DONNELL, appointed Patrolman, October 28, 1884; Sergeant, July 21, 1893.

INVENTORY OF PUBLIC PROPERTY APPERTAINING TO THE POLICE DEPARTMENT OF
THE CITY OF CLEVELAND.

Police Stations.	Location.	Value of Land.	Value of Building.	Value of Apparatus.	Value of Furniture and Fixtures.	Value of Horses.	Value of Supplies.	Value of Sewer and Water Connections.	Total Value of Property.
Headquarters.	City Hall.....	\$.....	\$.....	\$.....	\$ 1,274 00	\$.....	\$ 150 00	\$.....	\$ 1,424 00
1st Precinct.....	Champlain street.....	112,500 00	18,000 00	.....	1,500 00	.....	144 30	200 00	185,344 30
2d	Oregon street.....	4,000 00	6,000 00	.....	500 00	.....	292 26	150 00	10,942 26
3d	Forest street.....	3,000 00	6,000 00	.....	500 60	.....	172 81	150 00	9,822 81
4th	Willson avenue.....	.....	.....	.....	900 00	.....	117 31	.....	1,017 31
5th	Girard street.....	.....	.....	.....	600 00	.....	170 81	.....	770 81
6th	Willson avenue.....	2,500 00	3,500 00	.....	1,300 00	.....	211 96	100 00	7,611 95
7th	Wales treet.....	1,000 00	1,500 00	.....	1,190 00	.....	143 94	50 00	3,883 94
8th	Detroit street.....	12,000 00	63,000 00	.....	1,100 00	.....	203 93	400 00	76,703 93
9th	Barber avenue.....	2,000 00	3,000 00	.....	1,000 00	.....	134 26	50 00	6,184 26
10th	Swiss street.....	2,000 00	3,000 00	.....	1,000 00	.....	173 74	50 00	6,223 74
11th	Doan street.....	2,400 00	10,800 00	.....	900 00	.....	229 15	150 00	14,479 16
Patrol Station No. 1.....	Long street.....	.....	1,600 00	870 00	230 00	700 00	102 74	50 00	3,552 74
" " 2.....	State street.....	.....	.....	485 00	145 00	1,060 00	105 63	150 00	1,945 63
" " 3.....	Oregon street.....	1,800 00	2,400 00	435 00	95 00	875 00	105 37	50 00	3,760 37
" " 4.....	Willson avenue.....	2,500 00	4,100 00	540 00	160 00	160 00	125 00	150 00	7,725 00

INVENTORY OF PUBLIC PROPERTY APPERTAINING TO THE POLICE DEPARTMENT OF
THE CITY OF CLEVELAND—Continued.

Police Stations.	Location.	Value of Land.	Value of Building.	Value of Apparatus.	Value of Furniture and Fixtures.	Value of Horses.	Value of Supplies.	Value of Sewer and Water Connect'ns.	Total Value of Property.
Patrol System.....	City Hall.....	\$.....	\$.....	\$ 19,500 00	\$ 137 00	\$ 50 00	\$ 100 36	\$.....	\$ 18,787 36
Detectives.....	City Hall.....	.....	.....	.....	520 00	.....	54 00	.....	574 00
Total .....	.....	\$ 145,700 00	\$ 120,300 00	\$ 20,341 00	\$ 13,051 00	\$ 2,825 00	\$ 2,737 56	\$ 1,700 00	\$ 307,753 56

SPECIAL POLICEMEN

Appointed during the year, at request of Citizens and Companies.

Name.	Place of Duty.	Appointed
August Horstemeier.....	Genesee avenue.....	January 4, 1893.
Henry Jackson.....	Forest City Park.....	" 9, 1893.
Edwin Eldred.....	For the Cleveland Special Police Co.....	" 11, 1893.
Frank E. Sawyer.....	" " ".....	" 11, 1893.
Hiram Lampeon.....	" " ".....	" 11, 1893.
Curtis T. Grover.....	The Cuyahoga.....	March 30, 1893.
Burt P. Squire.....	Society for Savings.....	April 3, 1893.
Samuel Fuller.....	Bell's Auditorium.....	" 6, 1893.
John Connors.....	The Wonderland.....	" 22, 1893.
Wm. Peters.....	Cleveland Brewing Co.....	May 20, 1893.
Simon Stuedely.....	Baackes Wire Nail Co.....	" 22, 1893.
Otto Lucas.....	Dahler's Garden.....	" 27, 1893.
Matthew Van Boxel.....	".....	" 27, 1893.
W. C. Harris.....	Special Police Co.....	June 1, 1893.
James Donahue.....	".....	" 1, 1893.
John D. Pennie.....	Sommers' Garden.....	" 3, 1893.
Wm. Fischer.....	Germania Garden.....	" 10, 1893.
H. Kranstueber.....	Columbia Garden.....	" 12, 1893.
Henry Funke.....	Germania Garden.....	" 22, 1893.
R. E. Harper.....	Valley R. R. Co.....	" 23, 1893.
W. C. Bell.....	Buckeye Electric Co.....	" 23, 1893.
John Phillips.....	L. S. & M. S. R. R.....	" 30, 1893.
August H. Weber.....	Pearl street.....	July 8, 1893.
Phillip Keller.....	Cleveland Special Police Co.....	" 13, 1893.
W. F. Starr.....	" ".....	" 13, 1893.
Frank Iles.....	Valley R. R. Co.....	" 22, 1893.
C. H. Richards.....	Ontario and Michigan streets, etc.....	" 31, 1893.
Watt. Bean.....	Union Passenger Depot.....	August 10, 1893.
Henry Bergsicker.....	" ".....	" 10, 1893.
A. H. Cody.....	Valley R. R. Co.....	" 10, 1893.
James Gale.....	Cleveland Provision Co.....	" 10, 1893.

SPECIAL POLICEMEN—*Continued.*

Name.	Place of Duty.	Appointed
A. N. Dutcher.....	Manual Training School.....	September 26, 1893.
F. A. Barber.....	Lyceum Theatre.....	" 20, 1893.
Michael Sloane.....	Prospect street.....	October 4, 1893.
August Schneeberg.....	Euclid avenue.....	" 7, 1893.
A. W. Wiesman.....	"	" 9, 1893.
Chas. H. Seeley.....	Cleveland Special Police Co.....	" 9, 1893.
Christian Durchschlag.....	Pearl street.....	" 21, 1893.
John Duggan.....	Cleveland Special Police Co.....	" 25, 1893.
Thomas Woodland.....	"	" 24, 1893.
Thomas E. Keegan.....	"	" 24, 1893.
Frank Grigoleit.....	Germania Hall.....	" 25, 1893.
Michael Smith.....	Prospect street.....	" 27, 1893.
Wm. Brush.....	Quincy street.....	November 13, 1893.
M. McGinty.....	Orpheus Hall.....	" 17, 1893.
John Malloy.....	Cleveland Gas Co.'s Works.....	" 28, 1893.
Wm. Richards.....	J. Seibert's Hall, Jefferson street.....	" 29, 1893.
J. H. Kuttler.....	Socialer Turn Verein.....	" 29, 1893.
C. J. Klaue.....	Lorain street.....	December 5, 1893.
H. B. Flowers.....	Superior street.....	" 7, 1893.
Myron Hathaway.....	Franklin avenue.....	" 16, 1893.
Fred Vogt.....	South Side Park.....	" 19, 1893.
Wm. G. Jones.....	Special Police Co.....	" 20, 1893.
John Jones.....	"	" 22, 1893.
Arthur Haire.....	Merchants' Private Police Co.....	" 26, 1893.
W. J. Bunde.....	"	" 26, 1893.
E. A. Conklin.....	Special Police Co.....	" 30, 1893.

**CITY OFFICERS AND EMPLOYEES CLOTHED WITH
POLICE POWERS DURING THE YEAR.**

Name.	Official Position.	Appointed.
Otis Shreve.....	Park Police	April 7, 1883.
Harvey C. Wilcox.....	" "	June 23, "
Patrick O'Day.....	" "	June 28, "
Wm. Curtiss.....	" "	July 3, "
John Green.....	" "	July 3, "
Wm. Hadderath.....	" "	July 3, "
Chas. Wahl.....	" "	July 7, "
Daniel Phalen.....	" "	Oct. 13, "
Louis Poss.....	Superintendent of Markets.....	May 8, "
Thomas Galvin.....	Deputy Superintendent of Markets.	May 8, "
Wm. Mayer.....	Janitor of Market	May 8, "
Wm. H. Lamb.....	" "	May 8, "
C. Shupe.....	" "	May 8, "
Leon J. Hillenbrand....	" "	May 8, "
John Glowzowski.....	" "	May 8, "
J. D. Bresnahan.....	Deputy Superintendent of Markets.....	Aug. 16, "
T. F. Kelly	City Sealer	June 22, "
Frank Klammert.....	Assistant City Sealer.....	June 22, "
Peter Lynch.....	Harbor Master.....	June 28, "
John Styne	Poundkeeper	May 22, "
Henry Helmes.....	"	May 24, "
Joseph Sledz	"	June 19, "
Herman Herke	"	July 3, "
Joseph Novak	Infirmary Employe.....	May 8, "
H. Herke.....	" "	Oct. 4, "
H. F. Uthoff.....	" "	Oct. 4, "
J. Domagalski.....	" "	Oct. 20, "
N. J. Muennich.....	" "	Oct. 20, "
Wenzel Vanek.....	" "	Nov. 23, "
M. J. Thoma.....	Street Department	May 11, "
C. F. Matthew.....	" "	June 7, "
John Jirousek.....	" "	June 10, "

REPORT OF THE SUPERINTENDENT OF POLICE.

CLEVELAND, January 1st, 1894.

To W. C. Pollner,

Director of Police.

SIR:—I herewith submit a report of the operations of the police force for the year ending December 31st, 1893.

Respectfully,

HENRY HOEHN,

Superintendent of Police.

The following statistical tables will more particularly show the detailed workings of the force for the year ending December 31, 1893:

ARRESTS MADE DURING THE YEAR.

Month.	Males.	Females.	Total.
January	626	58	684
February	502	51	553
March	625	61	686
April	732	65	797
May	859	99	958
June.....	802	71	873
July	793	87	880
August	805	98	903
September	727	76	803
October.....	721	65	786
November	678	53	731
December	656	58	714
Total	8,526	842	9,368

COLOR.

White.....	9,003
Colored ..	365
Total.....	9,368

SOCIAL CONDITION.

	Males.	Females.	Total.
Married	3,123	454	3,577
Single	5,403	388	5,791
Total	8,526	842	9,368

QUALIFICATIONS.

Able to read and write.....	8,677
Unable to read and write	691
Total	9,368

OFFENCES.

VIOLATING STATE LAWS.

Abortion	1
Adultery.....	2
Aiding prisoners to escape	1
Arson.....	7
Assault and battery.....	745
Assault with intent to rob	6
Assault with intent to kill.....	8
Assault with intent to rape.....	3
Attachment.....	17
Bigamy.....	1
Barbering on Sunday.....	3
Bribery.....	2
Burglary.....	13
Burglary, attempting.....	13
Burglary and larceny.....	171
Carrying concealed weapons.....	76
Contempt of Court.....	15
Cruelty to animals.....	9
Cutting with intent to kill.....	5
Cutting with intent to wound.....	35
Destroying property	92
Desertion.....	1
Disturbing religious meeting.....	1
Embezzlement.....	29
Enticing a female under 18 years.....	1
Forgery	14
Fornication.....	4
Fugitive from justice.....	17
Gambling.....	17
Grand larceny.....	90
Horse stealing.....	3
House breaking.....	21
Impersonating an officer.....	4
Incorrigible conduct.....	32
Insanity.....	1

VIOLATING STATE LAWS.

Intoxication.....	365
Juvenile disorderly persons.....	5
Minors, selling liquor to.....	1
Maiming.....	2
Manslaughter.....	2
Murder.....	11
Neglecting minor children.....	33
Obstructing officer.....	25
Obtaining money by false pretenses.....	23
Obtaining goods by false pretenses.....	7
Passing counterfeit money.....	2
Petit larceny.....	728
Pocket picking.....	31
Rape.....	5
Receiving and buying stolen property.....	5
Receiving and concealing stolen property.....	14
Resisting an officer.....	4
Robbery.....	36
Selling liquor to intoxicated person.....	2
Selling lottery tickets.....	4
Sodomy.....	10
Shooting with intent to wound.....	12
Shooting with intent to kill.....	5
Stabbing with intent to wound.....	6
Violating election law.....	2
Violating railroad law.....	243
Violating second-hand dealer law.....	1
Violating Sunday liquor law.....	22
Violating inn-keeper law.....	4
Violating truancy law.....	10
Violating fire-escape law.....	1
Violating billiard law.....	1
Wrongfully using animals.....	22
Total.....	3,104

VIOLATING CITY ORDINANCES.

Careless driving.....	8
Common beggar.....	18
Common thief.....	2
Common prostitute.....	29
Disorderly conduct.....	418
Disturbance.....	296
Fast driving.....	2
Indecent exposure of person.....	11
Intoxication.....	4,622
Keeping house of ill-fame.....	7
Keeping gambling rooms.....	6
Residing in house of ill-fame.....	19
Suspicious persons.....	115
Vagrancy.....	135
Violating bathing ordinance.....	28
Violating base ball ordinance.....	1
Violating bill posters' ordinance.....	5
Violating exhibition ordinance.....	1
Violating gas ordinance.....	1
Violating billiard ordinance.....	1
Violating dog ordinance.....	3
Violating fire ordinance.....	2
Violating market ordinance.....	3
Violating fire-arms ordinance.....	42
Violating health ordinance.....	18
Violating junk ordinance.....	12
Violating music ordinance.....	6
Violating park ordinance.....	3
Violating peddlers' ordinance.....	58
Violating property ordinance.....	154
Violating express ordinance.....	5
Violating sidewalk ordinance.....	111
Violating street ordinance.....	70
Violating street railroad ordinance.....	28
Violating smoke ordinance.....	6
Violating water works ordinance.....	1
Visiting houses of ill-fame.....	18
Violating whistle ordinance.....	1
Total.....	6,264

TOTAL NUMBER OF ARRESTS DURING THE YEAR.

Violating State laws.....	3,104
Violating City ordinances.....	6,274
Total.....	9,368

OCCUPATIONS.

Actors.....	29
Agents.....	97
Architects.....	3
Artists.....	11
Bakers.....	35
Barbers.....	65
Bartenders.....	75
Beggars.....	6
Bill posters.....	4
Blacksmiths.....	71
Boatmen.....	8
Boiler-makers.....	77
Bolt-makers.....	14
Bookkeepers.....	20
Boot-blacks.....	4
Brakemen.....	25
Brewers.....	13
Brick-layers.....	54
Brick-makers.....	2
Broom-makers.....	3
Butchers.....	78
Cabinet-makers.....	8
Car drivers.....	1
Carpenters.....	267
Carriage makers.....	7
Cigar-makers.....	72
Clerks.....	180
Coachmen.....	14
Coal dealers.....	3
Collectors.....	15
Conductors.....	19
Confectioners.....	8
Constables.....	1
Contractors.....	19

OCCUPATIONS.

Cooks	79
Coopers.....	25
Core-makers	30
Doctors.....	15
Dressmakers.....	10
Druggists.....	3
Electricians	24
Engineers.....	89
Expressmen	25
Farmers	74
Finishers	36
Firemen	88
Gas fitters	12
Gamblers	11
Gardeners	15
Grocers.....	6
Hackmen.....	11
Harness makers	16
Heaters.....	15
Helpers.....	8
Horse shoers.....	18
Hostlers	77
House keepers.....	360
House movers	1
Hotel keepers.....	12
Hucksters.....	41
Hatters	3
Iron workers.....	82
Janitors	10
Jewelers.....	12
Junk dealers.....	9
Laborers.....	2,623
Lawyers	10
Livery keepers.....	4
Machinists.....	222
Manufacturers.....	8
Masons	29
Mechanics	5

OCCUPATIONS.

Merchants.....	54
Ministers.....	3
Milkmen.....	16
Miners.....	6
Millers.....	10
Moulders.....	221
Motor men.....	17
Musicians.....	21
Newsboys.....	18
Newspaper men.....	7
Operatives.....	4
Painters.....	223
Paper hangers.....	34
Peddlers.....	112
Plasterers.....	39
Plumbers.....	58
Polishers.....	58
Porters.....	27
Printers.....	75
Prostitutes.....	333
Puddlers.....	55
Railroad men.....	172
Rolling mill men.....	53
Roofers.....	28
Sailors.....	252
Saloon keepers.....	218
School boys.....	222
School girls.....	8
Servants.....	75
Ship carpenters.....	20
Shoe makers.....	59
Stone cutters.....	55
Stone masons.....	12
Steam fitters.....	8
Tailors.....	68
Teachers.....	2
Teamsters.....	301
Thieves.....	88

DEPARTMENT OF POLICE.

623

OCCUPATION.

Tinsmiths.....	59
Tinkers.....	16
Tugmen.....	2
Turners.....	5
Trimmers.....	1
Undertakers.....	3
Upholsterers.....	6
Vagrants.....	18
Waiters.....	78
Washerwomen.....	21
Watchmen.....	16
Weavers.....	10
Whitewashers.....	10
Wire workers.....	39
No occupation.....	636
Total.....	9,368

NATIVITY.

Arabia.....	7
Australia.....	3
Austria.....	108
Bohemia.....	374
Canada.....	272
China.....	2
Denmark.....	6
England.....	405
Finland.....	28
France.....	28
Germany.....	974
Holland.....	11
Hungary.....	131
Ireland.....	1,151
Isle of Man.....	8
Italy.....	56
Mexico.....	1
Norway.....	15
Nova Scotia.....	2
Newfoundland.....	6

DEPARTMENT OF POLICE.

NATIVITY.

Poland.....	201
Prussia.....	13
Russia.....	78
Roumania.....	2
Scotland.....	121
Slovacs.....	107
Spain.....	3
South America.....	1
Turkey.....	1
Sweden.....	36
Switzerland.....	28
United States.....	5,141
Wales.....	46
West India.....	2
Total.....	<hr/> 9,368

AGES.

Months.	Under Ten.	Ten to Twenty.	Twenty to Thirty.	Thirty to Forty.	Forty to Fifty.	Fifty to Sixty.	Sixty and over.	Total.
January.....	1	111	238	181	99	38	16	684
February.....	2	85	227	117	86	22	14	553
March.....	1	90	225	202	100	45	23	686
April.....	1	128	304	199	95	55	15	797
May.....	2	157	319	232	165	66	17	968
June.....	3	114	302	224	117	61	52	873
July.....	9	133	372	180	115	55	16	880
August.....	2	147	314	220	135	60	25	903
September.....	2	132	278	187	145	39	20	803
October.....	7	183	254	199	102	33	8	786
November.....	5	145	269	168	91	40	13	731
December.....	.....	132	266	165	94	48	9	714
Total.....	35	1,557	3,368	2,274	1,344	562	228	9,368

DISPOSITION OF CASES.

Months.	Fine and Costs.	Fine and Workhouse.	Costs.	Nolled.	Dismissed.	Bound over to Common Pleas Court.	Delivered to Officers from Abroad.	Committed to Infirmary.	Committed to Reform Farm.	Delivered to Sheriff.	Sent to Hospital.	Sent to Humane Agent	Not disposed of.	Bonds Forfeited.	Delivered to United States Officers.	Committed to House of Good Shepherd.	House of Refuge.	Total.
January.....	406	42	84	22	59	23	4	7					36			1		39
February.....	326	38	67	11	56	18	2	1	1				33					53
March.....	416	45	106	11	45	15	4	2	14				28					36
April.....	474	43	130	32	58	25	2	2	8	2		1	20					37
May.....	543	35	187	28	83	10	5	1		1	2		63					36
June.....	459	59	181	30	89	11	5		4	1	3		29					33
July.....	440	49	156	40	140	21	4	1	6	1			22					30
August.....	450	57	190	40	99	18	1			4			43					33
September.....	427	21	139	40	74	20	2		3	2	1		74					35
October.....	383	47	136	50	90	18	5	2	5	2			42	5				36
November.....	383	29	83	21	93	37	3		5	2		1	63	1	4			33
December.....	414	27	58	30	97	25	1				1		57	4				34
Total.....	5,121	492	1,517	355	983	241	38	8	53	16	7	2	510	10	4	1	10	9,338

1,970 prisoners of the 5,121 sentenced to "fine and costs," unable to pay the same, were sent to Workhouse, so that the number of prisoners received at the Workhouse was 2,462.

NUMBER OF PERSONS SENT TO THE WORKHOUSE.

Months.	Males.	Females.	Total.
January	165	15	180
February	144	18	162
March	156	27	183
April	190	24	214
May	201	27	228
June.....	212	21	233
July	174	26	200
August	193	35	228
September.....	196	31	227
October.....	176	26	202
November	165	16	184
December	208	13	221
Total	2,183	279	2,462

NUMBER OF PERSONS SENT TO WORKHOUSE AND
HOUSE OF CORRECTION FOR THE
PAST TWELVE YEARS.

1882.	
Sent to Workhouse.....	1,514
Sent to House of Refuge and Correction	60
Total	1,574
1883.	
Sent to Workhouse.....	1,507
Sent to House of Refuge and Correction	114
Total.....	1,621
1884.	
Sent to Workhouse.....	1,812
Sent to House of Refuge and Correction.....	114
Total.....	1,926
1885.	
Sent to Workhouse	2,096
Sent to House of Refuge and Correction	85
Total.....	2,183
1886.	
Sent to Workhouse.....	1,829
Sent to House of Refuge and Correction	68
Total	1,897
1887.	
Sent to Workhouse.....	1,981
Sent to House of Refuge and Correction	63
Total	2,044
1888.	
Sent to Workhouse	2,022
Sent to House of Refuge and Correction.....	37
Total	2,059
1889.	
Sent to Workhouse	3,038
Sent to House of Refuge and Correction.....	49
Total	3,087
1890.	
Sent to Workhouse.....	2,660
Sent to House of Refuge and Correction	58
Total	2,718
1891.	
Sent to Workhouse	3,104
Sent to House of Refuge and Correction.....	42
Total	3,146
1892.	
Sent to Workhouse	2,737
1893.	
Sent to Workhouse	2,462

TOTAL OF ARRESTS FOR THE PAST SIXTEEN YEARS.

1878.....	7,151
1879.....	6,539
1880.....	7,432
1881.....	7,465
1882.....	6,741
1883.....	7,254
1884.....	7,270
1885.....	6,882
1886.....	6,732
1887.....	8,588
1888.....	8,734
1889.....	10,377
1890.....	9,616
1891.....	11,133
1892.....	10,717
1893.....	9,368

**PROPERTY REPORTED STOLEN AND RECOVERED
DURING THE YEAR.**

Months.	Reported Stolen.	Recovered.
January.....	\$ 3,804 35	\$ 1,110 10
February.....	1,487 34	1,388 50
March.....	2,386 50	1,073 97
April.....	4,457 50	1,716 60
May.....	2,846 00	2,296 50
June.....	2,442 00	2,224 00
July.....	4,211 00	2,237 00
August.....	5,978 00	2,129 14
September.....	3,836 50	1,388 00
October.....	3,249 35	1,573 10
November.....	3,494 40	2,086 25
December.....	2,525 03	3,311 80
Total.....	\$ 40,717 97	\$ 22,534 96

**PROPERTY REPORTED STOLEN AND RECOVERED
FOR THE PAST TWENTY YEARS.**

Years.	Stolen.	Recovered.	Per Cent. Recovered.
1874.....	\$ 35,559 83	\$ 17,856 57	50.75
1875.....	50,109 77	29,273 26	58.41
1876.....	34,762 72	24,055 60	69.20
1877.....	27,677 67	30,055 60	79.76
1878.....	29,731 43	23,595 95	80.33
1879.....	21,068 25	13,075 25	62.06
1880.....	28,780 90	24,913 40	86.56
1881.....	135,880 75	124,508 09	91.63
1882.....	45,308 55	22,120 85	47.72
1883.....	21,266 80	12,180 46	57.22
1884.....	37,128 67	29,783 16	80.21
1885.....	32,227 53	14,410 02	44.99
1886.....	26,775 41	12,840 14	47.95
1887.....	38,305 64	17,844 19	46.24
1888.....	34,030 34	11,215 01	32.95
1889.....	57,310 84	13,305 15	23.22
1890.....	36,521 06	20,533 32	56.23
1891.....	42,978 71	22,302 64	51.89
1892.....	39,282 50	16,512 91	42.02
1893.....	40,717 97	22,534 96	55.34

MISCELLANEOUS REPORTS.

Months.	Accidents Reported.	Accidentally Killed.	Accidents to Persons.				Articles Lost.	Articles Found.	Animals Astray.	Animals Found.	Bodies Found.	Burglaries.	Taken to Hospitals.	Children Deserted.	Cutting Affrays.	Doors Found Open.	Drowned Persons.	Fires Reported.	House Breaking.	Lights Reported Out.		
			Assaulted Persons.	Attempted Burglaries.	Attempted Robberies.	Attempted Suicides.														Gas.	Vapor.	Electric.
January	4	25	2	1	...	4	16	4	6	9	...	30	...	...	61	...	88	1	12.0	3,296	24
February ...	5	26	1	7	...	1	10	2	3	6	1	13	...	1	58	...	63	...	746	2,364	59	
March.....	13	20	2	4	1	1	11	9	4	12	1	16	4	2	78	1	101	...	306	733	12	
April	6	49	5	6	...	1	17	8	10	8	...	21	3	5	80	2	77	2	183	971	4	
May	11	52	2	4	1	4	19	8	17	19	1	18	6	4	71	7	80	3	123	971	5	
June	2	13	39	5	5	...	3	15	10	24	33	11	11	1	54	18	85	1	31	1,888	5	
July.....	3	14	47	4	3	...	13	15	15	25	3	14	5	3	53	9	109	...	19	1,414	6	
August	3	10	52	1	4	2	3	17	16	18	18	5	19	4	8	64	5	66	...	33	886	...
September .	8	32	3	2	...	1	7	12	12	8	6	16	4	5	62	2	80	...	70	1,229	3	
October.....	2	10	30	4	6	...	2	11	15	17	21	1	31	1	69	1	61	...	274	2,032	28	
November..	4	34	3	10	1	1	11	10	11	5	1	52	2	1	83	1	69	3	260	2,310	6	
December...	3	5	22	2	9	1	2	19	15	11	...	36	4	6	73	1	66	...	225	3,062	12	
Total	13	103	428	34	61	6	23	166	124	148	175	30	277	43	638	806	47	945	10	3,000	21,158	174

MISCELLANEOUS REPORTS—Continued.

	Murders.	Missing Persons.	Pockets Picked.	Robberies.	Runaways.	Shooting Affrays.	Stabbing Affrays.	Suicides.	Sudden Deaths.	Street R. R. Accidents.	Windows Found Open.	Attempted Arson.	Rape.	Maiming.	Reports Received and Referred to.							
															Director of Public Works.	Director of Fire.	Director of Charities.	Street Commissioner.	Division of Health.	Infirmary.	Inspector of Buildings.	Inspector of Sidewalks.	Supt. Police Patrol Service.
January	1	4	4	6	1	7	7	6	7	7	6	7			4	14						
February	4	1	7	5	1	1	13	5	2						7	26	1					
March.....	1	8	1	8	3	4	2	7	1						17	104		4	8	1		
April.....	1	11	5	1	2			6	15						1	82		1	9	2		
May.....		8	4	2	15	1	4	7	4	1					2	211	1				13	
June.....	1	10	4	3	11	1	4		17						1	85				2		
July.....		11	10	4	10	2	1	5	4	20	4				6	78		2	3			
August.....		8	3	2	8	2	8	4	13	4					8	75		1	4			
September.....		8	4	8	2	4	2	6	11	3					4	65			3			
October.....	1	4	3	8	4	1	1	4	5	11	7				12	84		2	6	1		
November.....		7	3	7	2	5	3	4	13	5	2	1			10	3	48		1	1		
December.....	2	5	3	10	3	2	1	1	6	12	3	1		1	2	28		2	1	1	1	
Total	7	88	41	56	76	22	4	43	64	134	37	3	1	1	73	2	900	1	3	12	49	6

Report of the Detective Department.

CLEVELAND, O., Jan. 1st, 1894.

Henry Hoehn, Superintendent of Police :

SIR:—The following is a report of the doings of the Detective Department for the year ending Dec. 31st, 1893 :

There have been 976 local complaints of offenses committed in this city, referred to this Department, all of which received proper attention; 223 arrests for various offenses have been made; assistance has been rendered to officers abroad in their search for criminals, and 17 criminals have been arrested and turned over to the proper authorities; 11 criminals have been arrested for us by foreign officers, and by us brought back to this city.

Property amounting to \$11,654.40 was recovered, which amount includes gold and silver watches valued at \$2,880; bicycles, \$3,250; shoes and overcoats, \$750, balance being miscellaneous and articles too numerous to mention.

Various offenses for which arrests have been made are as follows :

Aiding criminal to escape.....	1
Arson.....	4
Assault and battery.....	7
Assault to kill.....	1
Attachment.....	2
Burglary and larceny.....	23
Cutting with intent to wound.....	3
Carrying concealed weapons.....	1
Defrauding innkeeper.....	2

Disturbance.....	9
Disorderly conduct.....	6
Embezzlement.....	6
Enticing female.....	1
Forgery.....	3
Fugitives from justice.....	17
Fornication.....	1
Grand larceny.....	41
Horse stealing.....	2
House breaking.....	3
Intoxication.....	2
Injuring property.....	1
Insane.....	1
Manslaughter.....	3
Murder.....	3
Neglecting minor child.....	1
Obtaining money by false pretenses.....	6
Obtaining goods by false pretenses.....	2
Petit larceny.....	44
Pocket-picking.....	7
Procuring abortion.....	2
Receiving and concealing stolen property.....	3
Robbery.....	2
Suspicious persons.....	11
Vagrancy.....	1
Violating second-hand law.....	1

Arrests for 1892 were 176, and, as will be seen, for 1893 are 223, being an increase of 47.

Yours respectfully,

F. R. HUMPHREY,

Captain of Detectives.

Report of the Emigrant Officer.

CLEVELAND, O., January 1st, 1894.

Henry Hoehn, Superintendent of Police:

SIR:—During the year ending December 31, 1893, seven thousand and thirty-four emigrants arrived on the different railroads leading into the city, of which three thousand three hundred and twenty-six settled in this city, of the different nationalities, as follow:

SETTLED IN THE CITY.

Nationality.	January.	February.	March.	April.	May.	June.	July.	August.	September.	Oct. ber.	November.	December.	Total.
Bohemians	34	1	26	57	77	62	73	49	35	4	42	.....	465
Danes .....	.....	.....	.....	2	.....	2	7	.....	.....	.....	.....	.....	11
English.....	.....	3	5	5	7	8	13	10	7	3	2	.....	63
Germans	43	6	46	152	108	121	55	69	40	8	86	26	810
Hungarians	46	.....	4	4	63	6	19	29	20	5	15	4	215
Irish.....	.....	1	13	8	19	7	8	14	13	2	5	2	92
Italians .....	.....	.....	18	37	20	16	10	3	1	.....	.....	16	121
Norwegians .....	.....	.....	.....	2	3	3	.....	.....	2	.....	.....	.....	10
Poles	39	2	42	74	260	79	116	45	51	4	39	40	791
Russians.....	15	.....	.....	.....	.....	10	2	.....	1	.....	.....	.....	28
Slavonians.....	35	.....	93	108	125	208	45	20	30	3	26	1	694
Swedes .....	.....	.....	.....	1	1	.....	.....	4	2	.....	.....	4	12
Scotch.....	.....	.....	.....	8	5	.....	.....	.....	.....	.....	.....	.....	13
Hollanders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Total	212	13	247	458	738	522	353	243	202	29	216	93	3,326

ARRIVED IN THE CITY.

January	306
February	108
March	408
April	1,006
May	1,018
June	1,011
July	686
August	1,032
September.....	765
October.....	57
November	341
December	296
Total	7,084

Respectfully submitted,

JOHN MCGRAW, No. 114,
FRANK KULAS, No. 103,
MATTHEW MARESH, No. 34,

Emigrant Officers.

Report of Police Patrol Service.

JANUARY 1, 1894.

W. C. Pollner, Director of Police :

SIR:—The following report of the workings of the Police Patrol Service for the year ending December 31st, 1893, is herewith respectfully submitted.

J. MURPHY,
Superintendent Patrol Service.

This branch of service comprises one fully equipped operating room at the City Hall, one complete operating switchboard at the Sixth Precinct Station, five patrol wagons, four patrol stations, four horses in each station, 79 patrol boxes of the interstate system, and 18 patrol boxes of the Gamewell system, 29 telephones, and 350 miles of wire, the whole requiring the service of one superintendent, three operators, two of whom are patrolmen, one patrolman detailed as lineman, and six patrolmen at each patrol station, two of them are detailed as drivers at each station.

Patrol Station No. 4 has been in operation since December 6, 1893.

The total expense of maintaining the system and stations is as follows :

	Salaries.	Contingent Expenses.	Total.
Patrol System:			
1 Superintendent.....	\$ 1,200 00		
3 Operators @ \$900.....	2,700 00		
1 Lineman.....	900 00		
Contingent expenses.....		\$ 1,941 88	\$ 6,741 88
Patrol Station No. 1:			
6 Patrolmen @ \$900.....	5,400 00		
Contingent expenses.....		1,920 83	7,320 83
Patrol Station No. 2:			
6 Patrolmen @ \$900.....	5,400 00		
Contingent expenses.....		967 28	6,367 28
Patrol Station No. 3:			
6 Patrolmen @ \$900.....	5,400 00		
Contingent expenses.....		1,146 06	6,546 06
Patrol Station No. 4:			
5 Patrolmen @ \$900.....	4,500 00		
Contingent expenses.....		1,098 04	5,598 04
Total.....	\$ 21,154 16	\$ 7,104 09	\$ 28,258 25

DEPARTMENT OF POLICE.

THE WORKINGS OF THIS DEPARTMENT FOR THE YEAR HAVE BEEN AS FOLLOWS:

Month.	Calls.			Mileage.			Runs.			Prisoners.			Transfer of Prisoners by Patrol Wagons Nos. 2 and 3.			Calls.		No. of Prisoners to County Jail.	
	Box.	Telephone.	Total.	No. 1 Wagon.	No. 2 Wagon.	No. 3 Wagon.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ambulance.		County Jail.
January.....	286	179	415	224	101	80	415	285	46	333	285	46	333	154	13	167	1	25	40
February.....	199	152	351	163	108	80	351	256	33	289	256	33	289	146	11	157	3	6	30
March.....	229	179	408	212	104	92	408	297	42	339	297	42	339	143	17	160	4	6	43
April.....	289	223	512	262	130	120	512	365	56	421	365	56	421	172	11	183	6	11	60
May.....	334	263	597	300	147	156	597	449	71	520	449	71	520	199	18	217	7	10	74
June.....	308	282	590	311	122	157	590	411	58	469	411	58	469	208	15	223	11	12	79
July.....	301	285	586	283	156	147	586	362	56	418	362	56	418	200	13	213	12	18	115
August.....	321	256	577	301	148	128	577	423	66	489	423	66	489	221	20	241	12	13	73
September.....	270	288	558	272	165	121	558	346	54	400	346	54	400	308	28	336	14	31	86
October.....	268	266	534	250	149	135	534	353	44	397	353	44	397	403	42	445	8	33	68
November.....	270	280	559	299	152	108	559	341	38	379	341	38	379	385	42	427	12	29	79
December.....	247	289	536	276	141	119	536	330	44	374	330	44	374	386	32	428	16	39	96
Total.....	3,272	2,431	6,223	3,163	1,623	1,437	6,223	4,218	610	4,828	4,218	610	4,828	2,935	262	3,197	106	283	848

The sentry boxes are located throughout the city as follows :

FIRST DISTRICT.

- | | |
|-----------------------------------|----------------------------------|
| 2—City Hall. | 35—Commercial and Berg streets. |
| 3—St. Clair and Ontario streets. | 36—Ohio and Hill streets. |
| 4—St. Clair and Bond streets. | 37—Cross and Hill streets. |
| 5—Lake and Erie streets. | 38—Erie and Woodland avenue. |
| 6—Summit and Wood streets. | 42—Bank and Frankfort streets. |
| 7—Summit and Seneca streets. | 43—St. Clair and Water streets. |
| 8—Lake and Bank streets. | 45—Superior and Water streets. |
| 9—Union Depot. | 46—River and Front streets. |
| 21—Euclid and Park. | 47—E. Main and Meadow streets. |
| 23—Ontario and Michigan streets. | 48—St. Clair and Spring streets. |
| 24—Ontario and Huron streets. | 51—Superior street hill. |
| 25—Central Market House. | 52—Center and Leonard streets. |
| 26—Erie and Eagle streets. | 53—Ohio and Brownell streets. |
| 27—Erie and Prospect streets. | 54—Columbus and Leonard streets. |
| 28—Erie and Superior streets. | 36—Columbus and Merwin streets. |
| 31—N. Y., P. & O. Depot. | 65—Broadway and Perry streets. |
| 32—Seneca and Hill streets. | 315—Home Security Co. |
| 34—Central Way and Stone's Levee. | 452—Seneca street. |

SECOND DISTRICT.

- | | |
|--------------------------------------|-----------------------------------|
| 41—Taylor and Lorain streets. | 72—Pearl and Bridge streets. |
| 49—Main and Center streets. | 73—Pearl and Franklin streets. |
| 57—Lorain and Smith streets. | 74—Pearl and Lorain streets. |
| 58—West River and Columbus streets. | 75—Taylor and Detroit streets. |
| 59—Nickel Plate depot, Pearl street. | 76—Bridge and Fulton streets. |
| 61—West River and Main streets. | 78—Lorain and Willett streets. |
| 62—Willow street bridge. | 79—Detroit and Weddell streets. |
| 63—Near gas house. | 116—Franklin and Waverly streets. |
| 64—Center and Washington streets. | 126—Detroit and Pearl streets. |
| 68—Detroit and Kentucky streets. | 332—Turn hall. |
| 71—Lorain and Jersey streets. | |

THIRD DISTRICT.

- | | |
|-------------------------------------|-------------------------------------|
| 124—Muirson and Walnut streets. | 146—St. Clair and Phelps streets. |
| 125—St. Clair and Waring streets. | 147—St. Clair and Case avenue. |
| 127—Superior and Sterling avenue. | 151—St. Clair and Kirtland streets. |
| 131—St. Clair and Muirson streets. | 152—St. Clair and Willson avenue. |
| 132—81 Oregon street. | 153—Superior and Willson avenue. |
| 134—St. Clair and Canfield streets. | 154—Superior and Hoadley streets. |
| 136—Clinton Park and Lake street. | 156—Payne and Willson avenues. |
| 137—Ross and Hamilton streets. | 157—Payne and Belden streets. |
| 141—Davenport and Briggs streets. | 212—Payne and Case avenues. |
| 142—Lake and Alabama streets. | 213—Superior and Wason streets. |
| 143—Lake and Lawrence streets. | 214—Payne and Phelps streets. |
| 145—Lake and Wason streets. | |

FOURTH DISTRICT.

- | | |
|---------------------------------------|--|
| 21—Broadway and Forest streets. | 35—Hamm and Petrie streets. |
| 22—Broadway and Independence streets. | 41—Warren and Martin streets. |
| 23—Sykora and Independence streets. | 42—Broadway and Union streets. |
| 24—Ackley and Fleet streets. | 43—Morgan and Homewood streets. |
| 25—South Willson and Mound streets. | 44—Tod and Engel avenue. |
| 31—Broadway and Meade avenue. | 45—Willson and Francis streets. |
| 32—Logue and Praha streets. | 51—Union street and N. Y. P. & O. R'y. |
| 33—East Clark and Ballou streets. | 52—Tod and Newman streets. |
| 34—Nursery and Finn streets. | |

Report of the Police Surgeon.

CLEVELAND, O., January 1, 1894.

To W. C. Pollner, Director of Police :

SIR:—I have the honor to submit the following report as Police Surgeon for the year ending December 31, 1893 :

During that period there have been two deaths in the force, viz : Patrolman James Flavin, No. 140, died May 16, 1893 ; Patrolman S. D. Mell, No. 41, died Dec. 13, 1893.

There have been also two deaths of officers on the Police Pension Roll, viz : J. W. Schmitt, Superintendent, died December 16, 1893 ; Charles McHannan, Lieutenant, died July 19, 1893.

The total number of days lost by sickness from all causes during the year was 2,881, and by reason of disabilities, 327 ; total, 3,208 days. Number of professional visits made, 1,060.

DEPARTMENT OF POLICE.

CAUSES OF SICKNESS.

Cause of Sickness.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Blood poison.....	11		31	23	12					20		7	104
Boils.....										3		3	6
Bronchitis.....		16							2				18
Cold.....	88	136	82	96	28	21	16	24	25	32	103	3	654
Cramps.....		3			2		9	4					18
Diarrhoea.....	2	11	7	1	4	8	9	23	5				70
Fever, typhoid.....			26	30			26	22			23		127
Fistula.....	3												3
Headache.....	2					1		1					4
Inflamed ear.....								18					18
" eye.....		2											2
" hand.....		37											37
Injury.....	12	13	1	55	44	30	4	25	40	9	17	77	327
Kidney complaint.....	5	3	19	6	5	3	3			4		10	58
Liver complaint.....		10	10										20
La grippe.....	11	6	3								120	388	528
Lumbago.....		21	14	5	3		31	15			4		93
Lung trouble.....				20			12						32
Malaria.....	10		33	18	32	3	14	4	14	8			136
Melancholy.....			28	30	31	30							119
Nervous trouble.....									16				16
Neuralgia.....			4			4	2						10
Paralysis.....						9	15	31		21			79
Pleurisy.....	8					26					6		40
Pneumonia.....	70	33	43	38	12							21	217
Piles.....				6	2	2	3			3			16
Rheumatism.....	35	25	20	26	29	33	21	49	36				284
Rheumatic gout.....	4						5						9
Rupture.....	5												5
Quinsy.....	8	22						23				8	61
Sore throat.....	20	2						5	26	21	4		78
Stomach trouble.....						18							18
Tape worm.....								1					1
Total.....	304	340	321	354	204	188	173	245	164	121	277	517	3,208
Number of men sick.....	56	69	53	44	34	25	36	40	30	25	64	64	540
Number of professional visits.....	108	117	112	110	68	64	59	74	49	45	102	151	1,060

Respectfully,

F. B. NORTON, *Police Surgeon.*

The Cleveland Police Pension Fund.

The following persons constitute the Trustees of this fund:

ROBERT BLEE, Mayor and President.

JAMES LAWRENCE, Director of Law.

W. C. POLLNER, Director of Police.

MEMBERS OF THE FORCE.

A. J. BARNES,

CHARLES DANGLER,

JOHN CARROLL.

JOHN VANEK, Secretary.

The following officers are on the Pension Roll:

Rank.	Name.	Date of Appointment.	Placed on Pension Roll.
Superintendent.....	J. W. Schmitt.....	May 1, 1866.....	July 1, 1883.
Lieutenant.....	Wm. Tompkins.....	May 1, 1866.....	May 8, 1888.
".....	Philip Anthony.....	Dec. 24, 1870.....	" "
Sergeant.....	John Williams.....	Jan. 31, 1871.....	June 15, 1892.
".....	E. W. Shipman.....	April 20, 1872.....	" "
Patrolman.....	Jacob Meyer.....	Nov. 13, 1871.....	Mar. 6, 1888.
".....	Charles Eccard.....	May 8, 1868.....	" "
".....	Richard Dunn.....	May 1, 1866.....	May 1, 1888.
".....	Kilian Dienst.....	May 1, 1866.....	" "
".....	John Faron.....	May 1, 1866.....	" "
".....	J. P. Bramley.....	Nov. 2, 1871.....	" "
".....	Wm. Sorge.....	Nov. 13, 1881.....	" "
".....	Geo. W. Willis.....	May 1, 1866.....	" "
".....	Charles Fischer.....	July 17, 1874.....	Oct. 1, 1889.
".....	James McNally.....	Mar. 15, 1887.....	April 7, 1891.
".....	D. J. Cook.....	Sept. 16, 1885.....	July 1, 1891.
".....	P. O'Malley.....	June 10, 1875.....	" "
".....	Peter Wilson.....	April 9, 1873.....	" 1883.
".....	W. W. Murphy.....	Sept. 7, 1871.....	" "

OBITUARY.

James Flavin, Patrolman No. 140, died May 16, 1893; appointed December 28, 1882.

Charles McHannan, Lieutenant, died July 19, 1893; appointed May 8, 1868.

S. D. Mell, Patrolman No. 41, died December 13, 1893; appointed April 30, 1873.

J. W. Schmitt, Superintendent, died December 16, 1893; appointed May 1, 1866.

\$500.00 was paid from this Fund each to the wives of the deceased officers.

REPORT OF THE RESOURCES AND DISBURSEMENTS
OF THE CLEVELAND POLICE PENSION FUND.

FOR THE YEAR ENDING DECEMBER 31, 1893.

1893.	RESOURCES.	
Jan'y 1.....	<i>Balance</i>	\$ 47,027 82
" 1.....	Interest from Society for Savings, 6 months.....	556 00
" 1.....	15% of special details for ¼ ending December 31, 1892...	245 25
" 21.....	Marshal and officers' fees in Police Court, state cases in November, 1892.....	173 98
" 21.....	Marshal and officers' fees in Police Court, state cases in December, 1892.....	230 98
" 26.....	From A. Horstemeier and Henry Jackson as spec. police	10 00
" 26.....	From Patrolman M. McGrath, fine.....	10 00
" 26.....	From Patrolman M. Donahue, fine.....	20 00
" 26.....	From Patrolman Thomas Madden, fine.....	15 00
Feb'y 21.....	Marshal and officers' fees in Police Court, city cases in November, 1892.....	373 75
" 28.....	From Patrolman M. McGrath, fine.....	10 00
" 28.....	From Patrolman M. Cunneen, fine.....	10 00
" 28.....	From Patrolman M. Mullee, fine.....	10 00
" 28.....	From Patrolman Thos. Madden, fine.....	10 00
" 28.....	From Patrolman A. Wedig, fine.....	10 00
March 1.....	Interest on \$10,000 city bonds, 4%, 6 months.....	200 00
" 18.....	Marshal and officers' fees in Police Court, state cases, January.....	148 98
" 18.....	Marshal and officers' fees in Police Court, state cases, February.....	141 47
April 1.....	Interest on \$5,000 city bonds, 4%, 6 months.....	100 00
" 1.....	From Patrolman M. McGrath, fine.....	5 00
" 1.....	From C. T. Grover and B. P. Squire as special police...	10 00
" 7.....	15% of special details for ¼ ending March 31, 1893.....	216 10
" 11.....	From S. Fuller as special police.....	5 00
" 11.....	Balance of special details from 8th Precinct.....	50
	<i>Forward</i>	\$49,539 83

POLICE PENSION FUND—*Continued.*

1893.	RESOURCES— <i>Continued.</i>		
	<i>Forwarded</i>	\$49,539 83	
April 18.....	Marshal and officers' fees in Police Court, city cases, in December, 1892.....	\$ 395 63	
" 18.....	Marshal and officers' fees in Police Court, city cases, in January, 1893.....	272 13	
" 18.....	Marshal and officers' fees in Police Court, city cases, in February	221 65	
May 8.....	From Police pay-roll for last half of April.....	79 28	
" 8.....	From Hiram Lampson, Frank Sawyer, E. Eldred and John Conners, as special police.....	20 00	
" 16.....	Marshal and officers' fees, Police Court, city cases, in March	302 58	
" 16.....	Marshal and officers' fees, Court of Common Pleas, January term.....	455 58	
" 27.....	Marshal and officers' fees, Police Court, state cases, in March.....	146 78	
" 27.....	Marshal and officers' fees, Police Court, state cases, in April.....	184 87	
" 31.....	From Wm. Peters, Simon Stuedely, Otto Lucas, M. Van Boxel, as special police.....	20 00	
June 6.....	From Police pay-roll for May.....	158 31	
" 17.....	From J. D. Pennie, Wm. Fisher and H. Kraustueber, as special police.....	15 00	
" 17.....	From Patrolman T. J. Carlen, fine.....	5 00	
" 17.....	Donation from Longview race course.....	24 00	
" 20.....	Marshal and officers' fees, in Police Court, city cases, in April.....	309 67	
" 28.....	From R. E. Harper and W. C. Bell, as special police...	10 00	
July 1.....	Interest from Society for Savings, 6 months.....	572 94	
" 5.....	From Police pay-roll for June.....	158 91	
" 6.....	15% of special details for quarter ending June 30.....	205 65	
" 7.....	Marshal and officers' fees in Common Pleas Court, April term.....	623 48	
	<i>Forward</i>	\$53,721 26	

POLICE PENSION FUND—*Continued.*

1898.	RESOURCES.— <i>Continued.</i>		
	<i>Forwarded</i>	\$53,721	29
July 14.....	From John Phillips, Henry Funke and A. H. Weber, as special police.....	15	00
" 14.....	Donations from Longview race course.....	36	00
" 14.....	Donations from Forest City park.....	5	00
" 19.....	Marshal and officers' fees in Police Court, city cases in May.....	368	20
" 21.....	Marshal and officers' fees in Police Court, city cases, in June.....	319	95
" 24.....	Marshal and officers' fees in Police Court, state cases, in May.....	216	45
" 24.....	Marshal and officers' fees in Police Court, state cases, in June.....	166	40
Aug. 1.....	From pay-roll for July.....	158	21
" 29.....	Marshal and officers' fees in Police court, city cases, in July.....	247	75
" 29.....	C. H. Richards, Matt. Bean and H. Bergsicker, as special police.....	15	00
	From sale of a green calf skin.....	25	
Sept. 7.....	From Police pay-roll for August.....	159	91
" 9.....	Interest on \$10,000 city bonds, 6 months, 4%.....	200	00
" 16.....	Marshal and officers' fees in Police Court, state cases, in July.....	125	12
" 16.....	Marshal and officers' fees in Police Court, state cases, in August.....	154	62
" 20.....	Marshal and officers' fees in Police Court, city cases, in August.....	276	35
Oct. 1.....	Interest on \$5,000 city bonds, six months, 4 per cent....	100	00
" 6.....	From Police pay-roll for September.....	159	91
" 6.....	From Jas. Gale, Frank Iles and A. N. Dutcher as special police.....	15	00
" 12.....	From G. W. Sloane, Aug. Schneeberg, A. W. Wies- man and F. A. Barber, as special police.....	20	00
	<i>Forward</i>	\$56,480	41

DEPARTMENT OF POLICE.

651

POLICE PENSION FUND—Continued.

1893.	RESOURCES—Continued.		
	<i>Forwarded</i>	\$56,480	41
Oct. 14.....	Marshal and officers' fees in Police Court, city cases, in September.....	218	80
" 14.....	15 per cent. of special details for quarter ending Sept. 30, 1893.....	118	42
" 27.....	From K. Hayes, for special detail.....	24	00
" 27.....	From Christ. Durchschlag and F. Grigolet, as special police.....	10	00
" 27.....	From Pat. W. Roberts, fine.....	5	00
" 27.....	From Geo. Demaline, fine.....	5	00
" 27.....	From J. Rees, fine.....	12	50
" 31.....	Interest on city notes to November 1, 1893	589	57
Nov. 9.....	From Patrolman Fred. Fischer, fine	12	50
" 9.....	From Patrolman Thos. J. Carlen, fine.....	10	00
" 9.....	From Patrolman J. Mahany, fine.....	5	00
" 9.....	From M. Smith, as special police.....	5	00
" 9.....	From auction sale of unclaimed property.....	172	35
" 9.....	From Police pay-roll for October.....	159	41
" 18.....	Marshal and officers' fees in Police Court, state cases, in September.....	164	68
" 18.....	Marshal and officers' fees in Police Court, state cases, in October.....	104	74
" 21.....	Marshal and officers' fees in Police Court, city cases, in October.....	239	22
" 29.....	From Wm. Brush, M. McGinty and John Malloy, as special policemen.....	15	00
" 29.....	Balance of special details from Eighth precinct.....	5	10
" 29.....	W. A. Sherman, reward for a dog	1	50
Dec. 6.....	From Police pay-roll for November.....	158	91
Dec. 21.....	Marshal and officers' fees in Criminal Court, Sept. term	634	57
" 21.....	From C. J. Klane, Wm. Richards, J. H. Kutler, H. B. Flower, Myron Hathaway and Fred. Vogt as special policemen	30	00
" 21.....	From Pat. Jos. Sweeney 15 per cent. of a reward for capture of John Foster.....	30	00
" 28.....	Special details from the 9th Prec	3	30
	Total		\$ 59,215 18

POLICE PENSION FUND—Continued.

1893.	DISBURSEMENTS.		
	<i>Forwarded</i>		\$ 50,215 18
Jan. 3.....	Pension Pay Roll for December	\$ 666 56	
" 3.....	Savings and Trust Co., rent of box	5 00	
Feb. 7.....	Pension Pay Roll for January.....	666 56	
Mar. 7.....	" " " " February.....	666 56	
Apr. 4.....	" " " " March.....	666 56	
May 2.....	" " " " April.....	748 28	
May 19.....	Mrs. J. W. Flayin, wife of J. W. Flavin, deceased	500 00	
June 6.....	Pension Pay Roll for May.....	830 00	
July 5.....	" " " " June	830 00	
Aug. 1.....	" " " " July.....	1,027 17	
" 1.....	Mrs. C. McHannan, wife of Charles McHannan, deceased.....	500 00	
Sept. 1.....	Pension Pay Roll for August.....	1,009 17	
" 9.....	R. M. Cordes, for making out Workhouse fees.....	19 71	
" 9.....	F. F. McConnell, for making out Workhouse fees.....	25 14	
Oct. 3.....	Pension Pay Roll for September	1,009 17	
" 3.....	Cleveland Print. and Pub. Co. for a warrant book	4 50	
Nov. 2.....	Pension Pay Roll for October	1,009 17	
Dec. 6.....	" " " " November.....	1,009 17	
	Total		\$ 11,193 72
	Balance, January 1, 1894.....		\$ 48,021 46

POLICE PENSION FUND—*Continued.*

RECAPITULATION.

RESOURCES.		
Balance January 1, 1893		\$ 47,027 82
Marshal fees in Police Court, city cases	\$ 1,442 68	
Officers' fees in Police Court, city cases	2,108 00	
Marshal fees in Police Court, state cases	804 93	
Officers' fees in Police Court, state cases	1,154 34	
Marshal fees in Common Pleas Court	256 68	
Officers' fees in Common Pleas Court	1,457 00	
15 per cent. of special details and rewards	795 82	
Commissions of special policeman	215 00	
Donations	89 00	
Interest on city bonds and notes	2,318 51	
Sale of stolen and unclaimed property	172 60	
Fines of officers	155 00	
Assessments from police pay rolls	1,192 85	
15 per cent. of rewards	80 00	
		12,187 36
Total resources		\$ 59,215 18
DISBURSEMENTS.		
Pay rolls of officers on pension roll	10,138 37	
Pensions to heirs of deceased officers	1,000 00	
For safe keeping of bonds and notes	5 00	
For a warrant book	4 50	
For making out workhouse fees	45 85	
Total disbursements		11,193 72
Balance January 1, 1894		\$ 48,021 46
Increase in 1893	993 64	

POLICE PENSION FUND—*Continued.*RECAPITULATION—*Continued.*

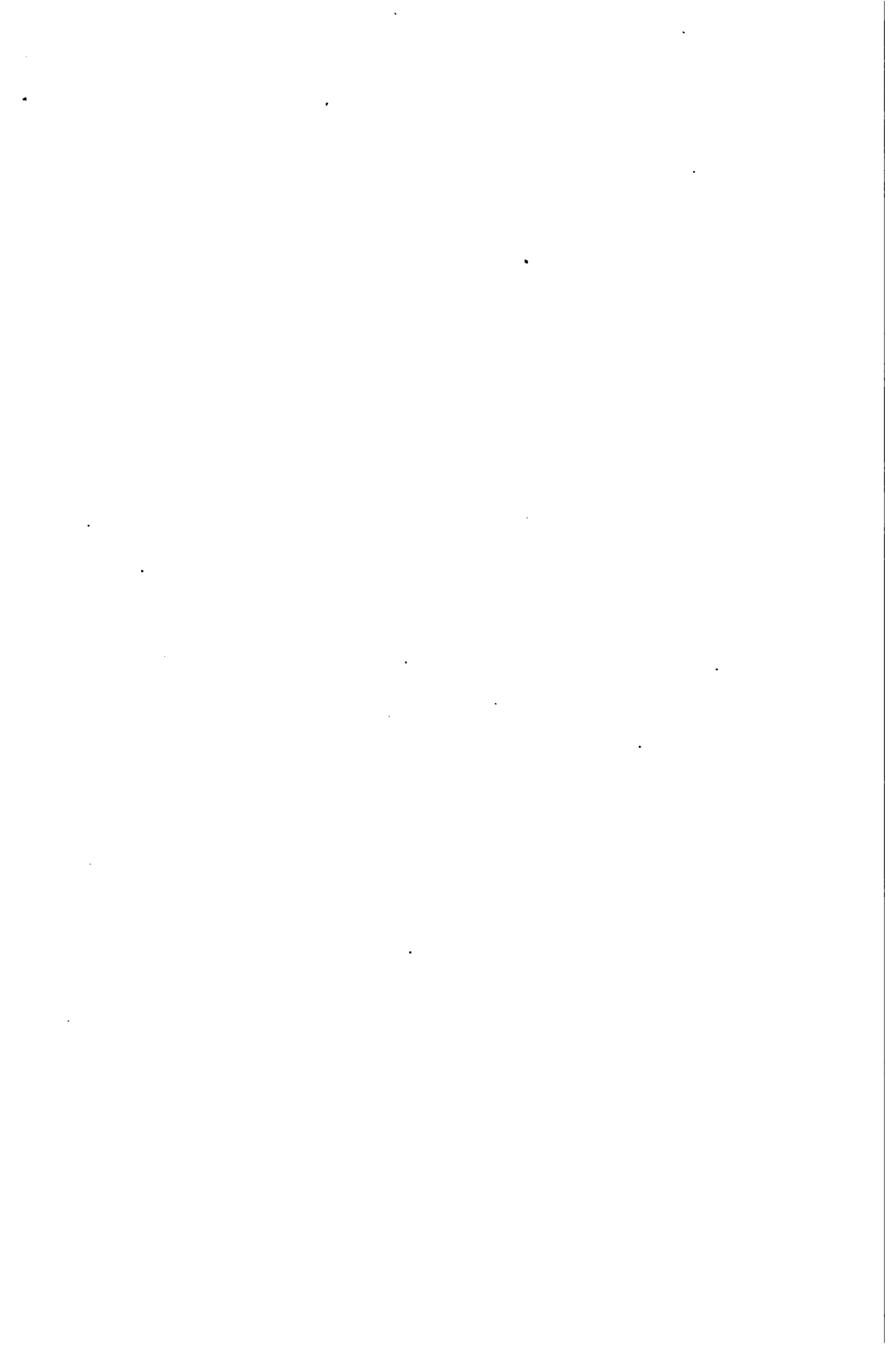
ASSETS.		
10 City of Cleveland bonds (Kingsbury bridge), 4 per cent., payable March 1, 1900, @ \$1,000	\$ 10,000 00	
5 City of Cleveland bonds (Petrie bridge), 4 per cent., payable April 1, 1894, @ \$1,000.....	5,000 00	
City of Cleveland notes, 5 per cent	31,500 00	
Cash at Society for Savings.....	303 50	
Cash in the City Treasury	1,217 96	
Total		\$ 48,021 46

JOHN VANEK,

Secretary of Police.

POPULATION OF THE CITY.

Census January 1, 1880.....	158,287
Census January 1, 1881.....	166,413
Census January 1, 1882.....	185,851
Census January 1, 1883.....	194,684
Census January 1, 1884.....	200,426
Census January 1, 1885.....	205,446
Census January 1, 1886.....	214,013
Census January 1, 1888.....	230,000
Census January 1, 1889—Estimated.....	250,000
Census July 15, 1890—Taken by the Police.....	269,073
Census January 1, 1893—Estimated.....	310,000
Census January 1, 1894.....	325,000



Department of Police.

HEALTH DIVISION.

OFFICERS:

W. C. POLLNER,

Director of Police.

DR. GEO. F. LEICK,

Health Officer.

E. L. DORAN,

Secretary.

THOMAS SMITH,

Inspector of Plumbing and Sewers.

HENRY L. PAYNE,

Food Inspector.

SANITARY POLICE.

ARMSTRONG, A. T.....	Wards 37 and 38.
ANDREWS, JOHN.....	Special.
BEAKEL, H. F.....	Wards 31, 32, 33 and 34.
BROWN, T. W.....	Wards 18 and 19.
COMMERFORD, J. J.....	Assistant Plumbing and Sewer Inspector.
DWYER JAS. W.....	Wards 12, 13 and 14.
GOODRICH, E. R.....	Wards 26 and 27.
HOLMDEN, H. C.....	Office.
JONES, A. G.....	Wards 24 and 25.
MCLAREN, JAS.....	Wards 2, 3 and 4, and G. Boat.
MORRIS, G. C.....	Wards 22 and 23.
NEWCOMB, F. E.....	Wards 28, 29 and 30.
NEVINS, W. R.....	Ward 40 and Slaughter House.
NEESON, JNO.....	Special.
O'BRIEN, L. J.....	Wards 15, 16 and 17.
REDINGER, E. W.....	Wards 20 and 21.
SCHNAUFFER, F.....	Wards 8 and 9.
STEARNS, C. H.....	Wards 35, 36 and 39.
SHANNON, P.....	Wards 5, 6 and 7
WHITMAN, L. C.....	Wards 1, 10 and 11.

Assistant Inspectors of Plumbing and Sewers :

FRENCH, C. A.

RYAN, J. J.

DISTRICT PHYSICIANS.

RULE V.—DUTIES OF DISTRICT PHYSICIANS.

SEC. 2.—They shall have an office located within their respective districts, and to the satisfaction of the Director of Police, and keep regular office hours, when and where they can be found by all persons applying to them for treatment, such hours to be from 9 o'clock A. M. to 10 o'clock A. M., and from 3 o'clock P. M. to 4 o'clock P. M. of each day, and at such other hours as may be necessary to provide for persons applying for treatment; such offices to have a distinct sign upon them with the words "District Physician," in plain view.

DISTRICT PHYSICIANS.

- District No. 1.—DR. P. PASINI, Wards 1, 10, 11, 12, 13, 14.
 District No. 2.—DR. F. M. HAMMON, Wards 2, 3, 4, 5.
 District No. 3.—DR. R. J. WENNER, Wards 6, 8, 9.
 District No. 4.—DR. D. C. HUSMAN, Wards 28, 29, 30, 34.
 District No. 5.—DR. M. DENNERLE, Wards 31, 32, 33, 35, 36.
 District No. 6.—DR. O. E. GEORGE, Wards 37, 38, 39, 40.
 District No. 7.—DR. J. B. PLENT, Wards 24, 25.
 District No. 8.—DR. H. F. ACKER, Wards 26, 27.
 District No. 9.—DR. A. S. ELLIOTT, Wards 20, 21.
 District No. 10.—DR. L. UMBSTAETTER, Wards 22, 23.
 District No. 11.—DR. C. W. DELLENBAUGH, Wards 7, 18, 19.
 District No. 12.—DR. A. STEINER, Wards 15, 16, 17.

SMALL-POX HOSPITAL.

CHAS. KOHLMAN.....Steward.

Report of the Health Officer.

Hon. William C. Pollner, Director of Police:

SIR:—I herewith respectfully submit to you a report of the work of the Health Division during the past year, including the report of the Secretary, Plumbing Inspector, and a part of the report of the Food Inspector. The report of the Secretary shows that there were expended \$36,992.22 during the year. This amount includes garbage and hospital expenses that were not included in previous years.

A study of the table in the Secretary's report, showing the expenses from 1873 to and inclusive of '93, will show that in proportion to the growth of the city the increase of expense in the Health Department has been kept to a minimum.

The United States census of 1870 gives the population of Cleveland as 92,825. The expense of the Health Department in 1873 was \$28,416.14. United States census of 1890 gives the population of 261,353. The expense of the Health Office for that year was \$33,933.76. At the close of 1893, with an estimated population of 325,000, the expense of this Department was \$36,992.22.

The working force of the Department during the past year has been increased by the addition of two clerks and three inspectors. After deducting the amount of salary of these additional officers, and about \$500.00 expended for fitting up a City Laboratory, it will be seen that the expense of 1893 does not exceed that of 1892.

DEATH STATISTICS.

The total number of deaths in the City of Cleveland during the year 1893 was 5,261, being an increase of 34 over 1892. Percentage of deaths, based on a population of 290,000: In 1891, 19.17; in 1892, 18.02; in 1893, 18.15.

The mortality per months during the past year will be found embodied in the Secretary's report. As in previous years, the highest rate of mortality was during the heated term of July and August, and due to increased mortality among children from such causes as cholera morbus, enteritis, etc. Our death statistics are not as reliable as they might be, owing to the fact that physicians rarely certify to the cause of death, and the undertaker frequently guesses at the cause. As long as undertakers are allowed to get burial permits on their own certificates, the same condition will prevail.

BIRTH STATISTICS.

The number of births in the city during the year was 9,267, being 159 more than occurred during the year 1892. The same carelessness displayed by physicians in recording of deaths is displayed to a greater degree, if anything, in the recording of births; and it is to be hoped that the legislature, during the coming winter, will enact stringent laws, compelling both physicians and midwives to report all cases of births promptly and correctly.

RECOMMENDATIONS.

Although repeatedly urged by my predecessors in office, no provisions have been made for collection and destruction of garbage. As the use of gas and oil stoves is increasing during the summer months, so the necessity for a systematic collection of garbage becomes more imperative, as many families who formerly burned their house offal in the cook stove (it is true, to the detriment of the stove) cannot do so now. Owing to the great territory our city occupies, the cost of collection will be greater than in cities of like population but less area. A careful estimate leads me to think that the cost will not exceed 20 cents

per capita, figuring on a population of 300,000: this is about two to three cents per capita in excess of the cost in average cities. The cost of destruction would of course be determined by the system of disposal adopted. Milwaukee, having the Merz system, pays \$25,000 per annum for destruction; the more garbage the company controlling the works there receive the better their returns to the stock holders. The figures given by agents of crematories vary from \$12,000 to \$25,000 per annum, they basing their estimates on a daily destruction of 75 tons of garbage. In giving estimate for collection, I figure on tri-weekly house collection from May 1st to October 1st, and bi-weekly from October to May, with daily collections throughout the year from hotels, markets and large down town hotels and restaurants.

BATH HOUSES.

Another long felt necessity is erection of public bath houses on the lake front; one on the east side of the river and one on the west side. Mr. Jacob Perkins generously offered the use of his land on the west side for the erection of a public bath house; the only condition he attached was that the police maintain order there. The cost of erecting these two bath houses exclusive of the land need not exceed \$1,500 to \$2,000, while their maintenance would not exceed \$75.00 per month during the four months of the year in which they would probably be in use. Milwaukee has for years had a public in-door bath house in which the water can be heated during the winter and which is very well patronized.

SMOKE NUISANCES.

The past year was the first that the smoke ordinance was in operation. During the year one hundred and twenty notices to abate smoke nuisances were served and in the majority of cases complied with. It is unfortunately true that the complaints of the manufacturers as to being overrun by agents for smoke consumers are justified. The market is flooded with numberless

devices for consuming and preventing smoke; the great majority of these contrivances are absolutely worthless as far as attaining the purpose they claim, and benefit only the maker thereof and agent selling them.

The cause of smoke in a number of instances can be traced directly to inadequate boiler capacity, in others to insufficient area in the stack, again in others to careless and wasteful firing. As soon as our manufacturers realize that the dense smoke now escaping from their chimneys is valuable heat-giving material, they will make an effort to save it and thus prevent in a great measure the nuisances now complained of.

During the past year, this department paid out \$1,057 to various hospitals for treatment of emergency cases picked up by the policemen on the streets. I would respectfully suggest the addition or setting aside of a ward in the City Hospital where this class of cases can be treated.

A number of new allotments, and also some of the older streets are sadly in want of sewers. The cellars in some streets are hardly ever without from six inches to two feet of water; a condition of things which cannot fail to prove injurious and which can be easily remedied by proper sewers.

Interesting information as to number of nuisances abated, yards of night soil removed and miscellaneous information can be gained from the reports of the Secretary and Inspector of Plumbing and Sewers.

In conclusion, I desire to thankfully acknowledge the uniform courtesy and willingness to aid me which has been shown by all members of the Department.

I remain, sir,

Very respectfully yours,

DR. GEO. F. LEICK,

Health Officer.

Report of the Secretary.

Dr. George F. Leick, Health Officer :

SIR:—Herewith is submitted the Twenty-first Annual Report of the Secretary of the Health Division of the Department of Police of the city of Cleveland, for the year ending December 31st, 1893.

The various matters herein will be found arranged in the following order, to wit:

- 1st—Finances.
- 2d—Mortuary Statistics.
- 3d—Statistics of Birth.
- 4th—Miscellaneous Statistics.

FINANCES.

The funds of the Health Division were obtained from the following sources :

Sanitary Fund, balance on hand January 1, 1893	\$ 2,815 68
Garbage " " " " " "	2,786 49
City tax levy	32,559 43
Permits to sell milk	1,210 00
Licenses to slaughter animals and poultry.....	1,222 50
Death certificates.....	119 00
Hospital fund transfer	25 87
J. V. Gallagher, rebate on salary	25 00
Total receipts.....	\$ 40,763 97

DISBURSEMENTS.

For hospital expenses	\$ 1,067 00
“ general “	33,154 22
“ garbage “	1,709 36
“ maintaining Small Pox Hospital and Farm	1,071 64
Total disbursements.....	\$ 36,992 22
Balance, January 1, 1894.....	\$ 3,771 75

GENERAL EXPENSES.

The general expenses for this division were incurred as follows :

Sanitary pay roll, from Dec. 15, 1892, to Jan. 1, 1894	\$ 30,794 57
Printing and stationery	631 84
City store room supplies.....	25 17
Office chairs repaired	4 00
Filter.....	4 00
Street car tickets	110 00
Rent of telephone at health office.....	25 00
City directory.....	6 00
City laboratory supplies as follows: implements, \$185.18; cases, \$152.00; plumbing and gas fitting, \$71.10; dippers, etc., \$8.08; chemicals, \$54.34. Total.....	479 70
Medicines and drugs	618 37
Rubber stamps, \$9.10; advertising, \$9.65; gas, \$17.60. Total	36 35
Cleaning walls in health office, \$10.00; window shades, \$3.50; papering and lettering, \$17.78; cleaning carpets, \$4.62. Total.....	75 90
Sanitary policemen badges, \$6.00; towels, \$3.42. Total.....	9 42
Sign for health office	3 00
Typewriter and ribbon	101 00
Geo. F. Leick, expenses to Chicago and Milwaukee.....	\$ 95 00
Cash advances as follows:—Stationers for use of the Division, \$36.65; M. D. Williams' expenses to Milwaukee and St. Louis, \$83; Duplicate milk permits, \$2; type-writing paper, \$2.60; telegrams, \$3.50; towels, \$1.56; brushes, \$1.25; jug and tray, \$1.29; bandages, 15c.; boat hire, 40c.; tacks, 25c.; tablets, \$1.50; chair repaired, 75c.; total.....	134 90
	\$ 33,154 22

EXPENSES OF SMALL-POX HOSPITAL AND FARM.

Salary of matron and steward.....	\$ 715 00
Telephone, \$25; mowing and reaping hay and oats, \$46.....	71 00
Horse-shoeing, \$19.30; wagon painted and repairs, \$34.50.....	53 80
Harness repairs, \$6.75; medicine for horse, \$7.70.....	14 45.
Veterinary surgeon services, \$3.50; feed for stock, \$1.20.....	4 70
Soap, wagon grease, etc	4 45
Repairs and material on house, bridge, roads, etc.....	175 24
Coal.....	33 00
	<hr/>
	\$ 1,071 64

HOSPITAL EXPENSES.

EMERGENCY CASES.

Huron Street Hospital.....	\$ 560 00
Lake Side Hospital.....	400 50
St. Vincent's Hospital.....	15 00
University Hospital.....	51 50
	<hr/>
	\$ 1,057 00

GARBAGE EXPENSES.

Removal by boat to January 1, 1894.....	\$ 1,697 08
Disinfectants.....	12 28
	<hr/>
	\$ 1,709 36

The following table shows the amounts expended by the Health Division each year for twenty years. 1893 amount includes garbage and hospital expenses that are not included in previous years:

1873.....	\$ 28,416 14
1874.....	25,056 58
1875.....	19,549 38
1876.....	16,168 65
1877.....	14,283 18
1878.....	12,493 71
1879.....	12,036 52
1880.....	12,908 95
1881.....	16,030 99
1882.....	20,329 32
1883.....	22,651 73

1884.....	24,411 07
1885.....	21,354 13
1886.....	27,206 67
1887.....	23,678 67
1888.....	28,078 82
1889.....	32,050 39
1890.....	33,933 76
1891.....	27,275 13
1892.....	34,115 07
1893.....	36,992 22

In accordance with Ordinance 2951, passed by the Council May 10, 1893, the working force of the Division has been increased by the addition of three sanitary policemen, and the office force by the addition of two recording clerks. The sanitary policemen now number twenty men.

MORTUARY STATISTICS.

As indicated by the tables to accompany this report, the total number of deaths in the city of Cleveland during the year 1893, was 5,261, being an increase of 34 over 1892.

For information as to age, color, sex, nativity, cause of death, and social relations of the person deceased, you are referred to the aforesaid tables.

Table No. 6, showing actual mortality.

Table No. 11, showing monthly report of deaths, also age, color, nativity, and social relations.

Tables Nos. 7 and 8, showing deaths by months in each ward from the six principal zymotic diseases.

Tables Nos. 9 and 10, showing the classified causes of death reported during the year 1893, also deaths by suicide.

Table No. 2, showing deaths reported in public hospitals and institutions.

BIRTH STATISTICS.

By tables given, the number of births in the city during the year 1893 was 9,267, being 159 more than occurred during the year 1892.

The tables to be annexed to the report will give the information concerning color, sex, nativity, age of parents, and comparative number of births monthly.

MISCELLANEOUS STATISTICS.

MILK PERMITS

Issued during the year, 1,210.
 439 to persons selling from wagons.
 573 to persons selling from stores.
 198 to persons selling from houses.
 A fee of \$1 was charged for each permit.

SLAUGHTER LICENSES.

During the year one hundred and twenty-two (122) licenses were issued to slaughter stock, dress poultry, and render fats. For each permit a fee of \$10 was collected. One was issued for the period of three months, and collected in that proportion.

PERMITS TO REMOVE BODIES.

There were issued during the year three hundred and sixty-four (364) permits to remove dead bodies from this to other cities and localities, for which no charge was made.

PRIVY VAULTS.

Permits were granted without charge for building seven hundred and forty-nine (749) privy vaults during the year, which were built in accordance with plans adopted in 1880.

NIGHT SOIL FUND FOR 1893.

RECEIPTS.

Balance in night soil fund January 1, 1893.....	\$ 2,241 71
14,850 $\frac{1}{4}$ yards at \$2.12.....	31,482 58
Old rebates turned in by Secretary.....	20 19
Total.....	\$ 33,744 43

DISBURSEMENTS.

15,602 $\frac{1}{4}$ yards cleaned at \$2 12.....	\$38,268 63
142 $\frac{1}{4}$ yards rebated at \$2 12.....	302 63
3 yards rebated at \$2 25.....	6 75
5 $\frac{1}{2}$ yards rebated at \$2 24.....	12 32
	\$38,590 33
Balance, January 1, 1894.....	154 10

Our death record is up to date both in recording and indexing. On January 1st, 1893, the birth record was ten months behind in recording and five years in indexing. There has also been a falling back of two months this year in the recording of births, owing to the increase of births and deaths—increased population—and increased work of a new character. The indexing has been caught up with to within two and one-fourth years back of the recording. Recording of births is one year behind. It is impossible to keep the birth records up to date on account of the irregularity of returns made by the physicians and midwives. It is necessary to keep these records back at least six months in order that they may be entered in proper form and date.

Citizens frequently have recourse to this department for certified copy of birth or death, and this record sometimes happens to be of serious importance, hence our records should be as well authenticated as possible in the interests of the public, but at present, physicians often omit this record entirely, and it is given as second-hand and perhaps hap-hazard by the undertaker. I beg to suggest that physicians ought to make this record themselves and make it as full and accurate as possible.

The Statistical Tables accompanying this report will contain the following matter, and will be found in the subjoined order:

No. 1—Relief of the poor—Report of District Physicians.

No. 2—Deaths reported in public institutions.

No. 3—Contagious diseases reported; also deaths.

No. 4—Births and deaths, by month, with nativity of decedents.

No. 5—Comparative view of twenty-five principal causes of deaths.

No. 6—Deaths—all causes classified.

Nos. 7 and 8—Zymotic diseases, by wards.

Nos. 9 and 10—Deaths from local, constitutional, developmental diseases, and by violence.

No. 11—Deaths by months, showing sex, condition, color and nativity.

No. 12—Deaths by months, showing age by years.

Nos. 13 and 14—Births in each month in 1893.

Nos. 15 and 16—Nuisances abated by Sanitary Police.

No. 17—United States Weather Bureau Report.

The reports of the Food Inspector, Inspector of Plumbing and Sewers, and Superintendent of Markets will be found appended.

In conclusion, I beg to thank you personally for an unvarying, kind and courteous co-operation in my manifold duties.

Yours very respectfully,

E. L. DORAN,
Secretary.

No. 1.
RELIEF TO THE POOR.
REPORT OF DISTRICT PHYSICIANS FOR 1893.

DIS- TRICT NO.	DISTRICT PHYSICIANS.	Cost of Medi- cines for 1892.	Cost of Medi- cines for 1893.	No. of Pre- scrip- tions.	No. of Visits.	No. of Pa- tients.	NATIVITY.					No. of Deaths.	No. of Deaths to Foreigners.	
							U. S. and Canada	Ger- many	Ire- land.	Bohe- mia.	Other For- eigners.			
1.....	Dr. G. S. Parker, 4½ mos Dr. P. Pasini, 7½ mos.....	\$ 34 38	\$ 55 15	845	889	253	70	51	52	3	60	17	6	.20 +
2.....	Dr. P. A. Cole, 4½ mos Dr. C. F. Wely, 2½ mos..... Dr. J. V. Gallagher, 1 mo..... Dr. F. M. Hammon, 2 mos.....	11 60	75 40	360	383	202	105	30	36	1	15	15	3	.43 +
3.....	Dr. J. S. Campbell, 4½ mos Dr. R. J. Wenner, 7½ mos.....	22 95	78 14	1,271	788	385	142	80	121	4	20	18	6	.16 +
4.....	Dr. J. A. Rielly, 4½ mos Dr. D. C. Husman, 7½ mos	92 31	73 07	976	288	424	172	29	196	3	15	9	11	.29 +
5.....	Dr. C. A. Stedman, 4½ mos..... Dr. M. Dennerle, 7½ mos.....	61 20	44 61	617	515	165	74	56	8	1	7	19	5	.30 +
6.....	Drs. J. M. Friend, 4½ mos..... Dr. O. E. George, 7½ mos.....	62 65	58 23	722	892	255	83	126	16	22	5	3	8	.23 +
7.....	Dr. E. P. Hawley, 4½ mos..... Dr. J. B. Plent, 7½ mos	14 58	55 07	668	597	264	64	34	17	92	52	5	8	.28 +

No. 1—Continued.

RELIEF TO THE POOR.

REPORT OF DISTRICT PHYSICIANS FOR 1893.

DISTRICT NO.	DISTRICT PHYSICIANS.	Cost of Medicines for 1892.	Cost of Medicines for 1893.	No. of Prescriptions.	No. of Visits.	No. of Patients.	NATIVITY.					No. of Deaths.	Selling Price of Goods	
							U. S. and Canada	Ger. and many	Ire. land.	Bobbe. mis.	Other For. eigners.			Eng. land.
8.....	Dr. G. H. Somerville, 4½ mos.....	\$ 47 34	\$ 50 95	687	617	294	4	97	.....	31	20	9	.26
9.....	Dr. H. F. Acker, 7½ mos.....	44 73	19 59	541	430	108	7	1	9	30	2	4	.29+	
10.....	Dr. A. S. Elliott, 4½ mos.....	48 06	24 97	572	533	187	74	16	1	26	1	4	.24+	
11.....	Dr. L. Umbreit, 12 mos.....	20 13	44 29	396	396	166	64	10	.....	51	17	2	.44+
12.....	Dr. Wm. Daus, Jr., 4½ mo*.....	8 44	35 89	384	519	164	49	2	4	84	6	4	.28+	
	Dr. C. W. Dellenbaugh, 7½ mos.....	2 88	2 95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	*Dr. Clark Townsend, 4½ mos.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Dr. A. Steiner, 7½ mos.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Office prescriptions .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	471 25	618 37	8,029	6,912	2,812	1,083	479	572	140	386	132	70	.26+

* I regret to have to state that my repeated efforts have failed utterly to secure any report from Dr. Clark Townsend, who was District Physician for the first four months and a half of this year.

No. 2.

DEATHS REPORTED IN PUBLIC INSTITUTIONS.

Year Ending December 31, 1893.	Male.	Female.	Total.
Lakeside Hospital.....	21	14	35
Charity Hospital.....	29	21	50
City Hospital.....	68	34	102
Home of Maternity.....	15	10	25
Homoeopathic Hospital.....	20	15	35
Cleveland Hospital for Insane.....	26	12	38
Home of Good Shepherd.....	1	2	3
Home of Aged Israelites.....	1	3	4
Home for Old Ladies.....			
Trinity Church Home.....		1	1
St. Alexis' Hospital.....	41	19	60
University Hospital.....	2		2
St. Mary's Asylum.....		1	1
St. Joseph's Asylum.....		4	4
Monroe Street Orphan Asylum.....	2	2	4
Little Sisters of the Poor.....	5	15	20
Jewish Orphan Asylum.....		1	1
Cleveland Protestant Orphan Asylum.....			
Women's and Children's Hospital.....			
Other Public Institutions.....	36	28	64
Total.....	267	182	449

No. 3.
 CASES OF CONTAGIOUS DISEASES REPORTED
 DURING 1893.

Varioloid.	Mem. Croup.	Whooping Cough.	Puerperal Fever.	Erysipelas.	Measles.	Typhoid Fever.	Scarlet Fever.	Diphtheria.
.....	4	26	2	20	95	281	697	419

DEATHS IN 1893 FROM CONTAGIOUS DISEASES.

Varioloid.	Mem. Croup.	Whooping Cough.	Puerperal Fever.	Erysipelas.	Measles.	Typhoid Fever.	Scarlet Fever.	Diphtheria.
.....	126	17	30	13	9	153	46	143

No. 4.

BIRTHS AND DEATHS BY MONTHS.

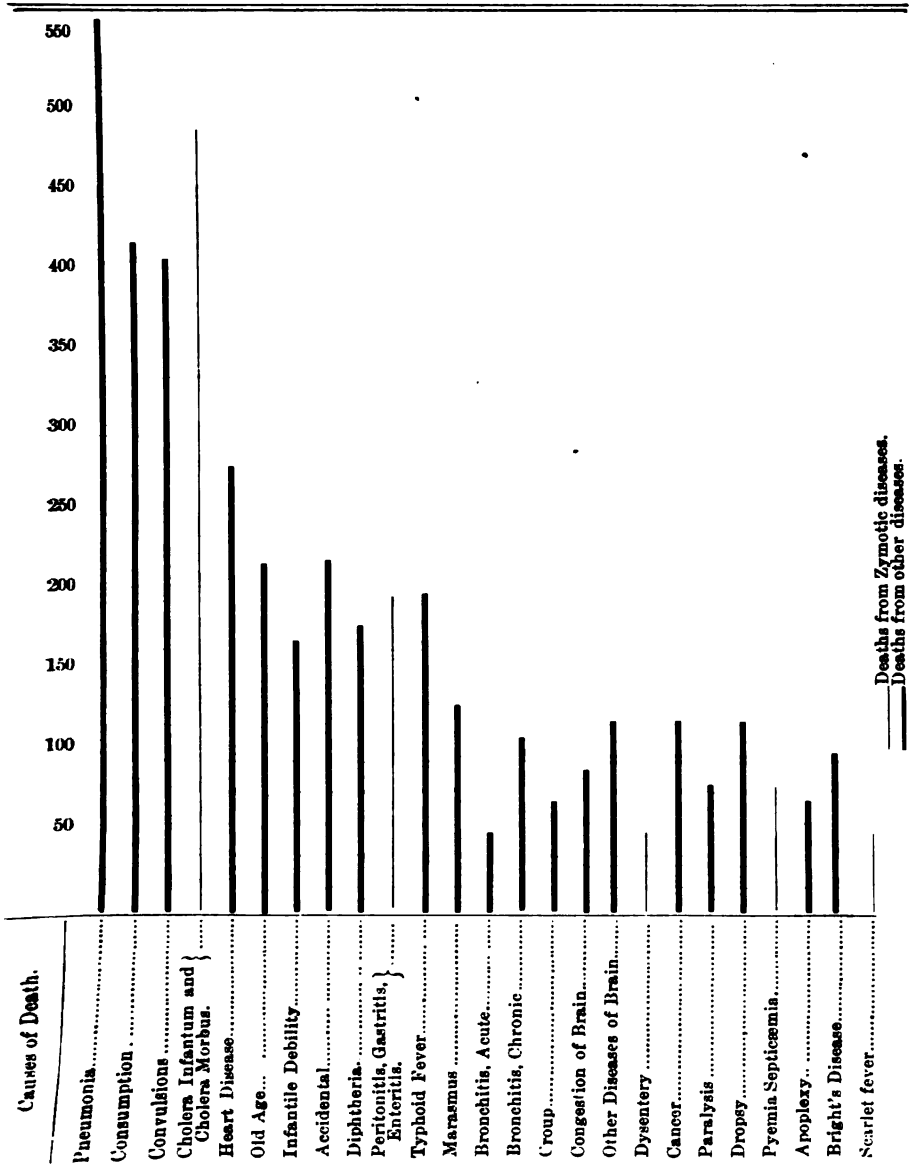
BIRTHS—1893.		DEATHS—1893.	
January	829	January	395
February	811	February	414
March.....	691	March.....	493
April	769	April	395
May	654	May	427
June.....	812	June	414
July	777	July	510
August	842	August.....	598
September.....	777	September.....	353
October.....	897	October.....	370
November	682	November	405
December	726	December	487
Total	9,267	Total	5,261

NATIVITY OF DECEDENTS.

Year ending December 31, 1893.	Male.	Female.	Total.
Cleveland.....	1,396	1,146	2,542
Other parts of the United States	516	516	1,032
Germany	392	297	689
Ireland.....	185	176	361
Canada.....	23	28	51
England.....	74	57	131
Bohemia	98	74	171
Poland	13	7	20
Other Foreigners	103	95	198
Unknown.....	38	28	66
Total	2,937	2,424	5,261

No. 5.

COMPARATIVE VIEW OF TWENTY-FIVE OF THE PRINCIPAL CAUSES OF DEATH DURING THE YEAR 1893.



No. 6.

DEATHS FROM ALL CAUSES IN 1893. CLASSIFIED.

• Classified Causes of Death.	Deaths in 1893.	Deaths in 1892.	Males. 1893.	Females. 1893.
1. Zymotic Diseases.....	1,439	1,327	756	683
2. Constitutional Diseases.....	762	725	387	375
3. Local Diseases.....	2,351	2,439	1,272	1,079
4. Developmental Diseases.....	453	478	206	247
5. Deaths by Violence.....	256	258	216	40
Total.....	5,261	5,227	2,837	2,424

ANNUAL DEATH RATE.

1893.....	18.15 per cent.
1892.....	18.02 "
1891.....	19.17 "
1890.....	19.08 "
1889.....	18.36 "
1888.....	18.78 "
1887.....	19.02 "
1886.....	17.40 "
1885.....	17.43 "
1884.....	18.00 "
1883.....	17.41 "
1882.....	18.85 "

No. 7.

DEATHS FROM ZYMOTIC DISEASES. BY WARDS.

Wards.	Measles.	Scarlet Fever.	Diphtheria.	Croup.	Whooping Cough.	Cholera Infantum.	Cholera Morbus.	Other Diarrhœal Diseases.	Typhoid Fever.	Cerebro Spinal Fever.	Other Zymotic Diseases.	Total Zymotic.	Total Deaths from all Causes.
1st	2	1	5	1	28	6	6	6	19	74	198		
2nd			1		3		4	6	14	66			
3rd		1	1		5		1	6	14	64			
4th			3	1	5	1	1	5	16	86			
5th		1	4	1	5		2	8	22	107			
6th				1	1	3	1	3	10	59			
7th		2	3	2	14	1	6	6	35	104			
8th	1	5	8	4	15	2	4	3	44	129			
9th	2	1	1	4	27	2	5	7	2	18	69	247	
10th			2	2	1	1		1	2	9	58		
11th					1	3		1	1	2	8	53	
12th				1	1		1	1	6	11	66		
13th		2	2	1	9	1	2	4	4	25	109		
14th			1	1	5		4	1	3	15	62		
15th				3	6	2	5	2	1	19	124		
16th			1	2	2	13	2	3	2	10	38	108	
17th			5	2	1	12		4	3	6	33	130	
18th		1	17	4	1	20	1	9	1	20	74	219	
19th		2	2	4	2	16	1	3	2	13	45	154	
20th	1		2		8	1	5	3	2	22	102		

No. 8.

DEATHS FROM ZYMOTIC DISEASES. BY WARDS.

Wards.	Measles	Scarlet Fever.	Diphtheria.	Croup.	Whooping Cough.	Cholera Infantum.	Cholera Morbus.	Other Diarrheal Diseases.	Typhoid Fever.	Cerebro Spinal Fever.	Other Zymotic Diseases.	Total Zymotic.	Total Deaths from all Causes.
21st	3	2	3	2	11	.....	1	5	8	19	54	196
22nd	4	2	3	1	11	1	6	6	2	9	45	155	
23rd	1	4	2	.....	18	1	2	6	8	14	56	154
24th	1	1	3	5	2	26	1	7	10	5	15	76	311
25th	5	8	6	.....	31	.....	9	3	2	11	75	245
26th .....	.....	14	5	.....	15	1	1	7	2	5	50	149
27th	1	2	3	9	21	5	5	2	13	61	183
28th	1	4	5	.....	16	2	1	4	2	8	43	127
29th	1	1	4	1	3	9	18	84
30th .....	.....	1	3	.....	2	.....	.....	2	2	3	13	70
31st .....	.....	3	5	.....	1	1	1	2	.....	2	15	53
32nd .....	.....	1	3	7	.....	9	.....	3	.....	3	26	93
33rd .....	.....	.....	1	.....	7	.....	.....	3	.....	2	13	79
34th	1	3	3	.....	14	.....	2	4	2	7	36	128
35th	2	10	4	.....	8	.....	1	5	.....	7	37	128
36th	2	4	12	.....	13	.....	.....	7	1	7	46	151
37th	1	4	6	1	26	.....	3	3	2	11	57	200
38th	2	10	2	.....	10	.....	1	4	3	6	38	162
39th	3	5	4	.....	15	.....	4	4	1	5	41	180
40th	2	6	4	.....	17	.....	2	3	.....	8	42	168
Total	9	46	143	126	17	474	16	74	153	74	307	1439	5261

No. 9.

ACTUAL MORTALITY IN 1893. ENUMERATION OF
CHIEF CAUSES.

Local Diseases.	Deaths in 1893.	Deaths in 1892.	Males 1893.	Females 1893.
Pneumonia and Congestion of Lungs	553	548	305	248
Bronchitis, Acute	109	135	57	52
Bronchitis, Chronic	50	41	26	24
Pleurisy	10	12	7	3
Asthma	35	36	23	12
Congestion of Brain and Meningitis	85	127	52	33
Apoplexy	79	65	45	34
Paralysis	96	104	48	48
Epilepsy	9	7	7	2
Tetanus	9	7	4	50
Convulsions	406	425	235	171
Sunstroke	3	7	3	.....
Other Diseases of Brain and Cord.....	96	123	52	44
Diseases of Heart	272	276	138	134
Aneurism	4	.....	2	2
Abscess.....	18	49	8	10
Dropsy	102	82	49	53
Diabetes	12	11	7	5
Bright's Diseases and Nephritis.....	93	64	55	38
Peritonitis, Gastritis, Enteritis and Perforation....	186	202	88	98
Hernia and Obstruction of Intestines	25	33	11	14
Disease of Liver	65	44	31	34
Genito Urino Diseases.....	27	29	15	12
Hip Disease, Diseases of Bones and Cartilages.....	2	1	1	1
Tonsilitis	5	11	3	2
Total	2,351	2,439	1,272	1,079

No. 10.

**ACTUAL MORTALITY IN 1893. ENUMERATION OF
CHIEF CAUSES.**

Constitutional Diseases.	Deaths in 1893.	Deaths in 1892.	Males 1893.	Females 1893.
Cancer.....	150	102	56	94
Rheumatism.....	15	31	11	4
Marasmus, Scrofula and Tabes Mesenterica.....	172	153	87	85
Hydrocephalus and Tub. Meningitis.....	7	4	3	4
Phthisis Pulmonalis.....	411	422	227	184
Anemia.....	7	13	3	4
Total	762	725	387	375

Developmental Diseases.	Deaths in 1893.	Deaths in 1892.	Males 1893.	Females 1893.
Puerperal Diseases.....	30	24	.....	30
Infantile Debility.....	158	210	89	69
Dentition.....	30	28	16	14
Senectus, Old Age.....	235	216	101	134
Total	453	478	206	247

Deaths by Violence.	Deaths in 1893.	Deaths in 1892.	Males 1893.	Females 1893.
Accidental.....	202	209	176	26
Homicide.....	11	3	7	4
Suicide.....	37	41	30	7
Surgical Operation.....	6	3	3	3
Unknown.....	.....	2	.....	.....
Total	256	258	216	40

No. 11.

DEATHS DURING THE YEAR 1893 BY MONTHS, ALSO
SEX, CONDITION, COLOR AND NATIVITY.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Total number of deaths	395	414	493	395	427	414	510	598	353	370	405	487	5,261
SEX.													
Males.....	204	223	278	218	233	237	278	314	186	206	207	243	2,837
Females.....	191	191	215	177	194	177	232	274	167	164	198	244	2,424
CONDITION.													
Married	126	119	155	124	118	123	108	117	85	95	122	148	1,444
Single	217	237	278	212	251	253	374	421	228	226	213	236	3,145
Widows and widowers.....	52	58	60	59	58	38	28	60	40	49	70	103	672
COLOR.													
Whites.....	385	401	485	393	422	411	508	596	346	364	401	479	5,192
Colored.....	10	13	8	2	5	3	2	2	7	6	4	6	69
NATIVITY.													
Cleveland	153	199	224	165	178	185	322	370	192	187	174	193	2,542
Other parts of United States.....	94	87	102	78	108	85	62	79	59	74	89	115	1,032
Germany	46	49	63	71	56	80	57	62	40	45	53	67	689
Ireland.....	32	27	39	31	35	17	26	33	15	20	39	47	361
Canada	8	4	12	6			5	3	2	2	6	3	51
England	14	12	12	12	9	8	9	14	7	7	10	17	131
Bohemia.....	18	7	13	12	20	15	9	22	19	9	13	14	171
Poland	3		2	3	1			4	2	2	1	2	20
Other Foreigners.....	11	23	18	10	18	5	13	8	15	23	17	25	198
Unknown.....	16	6	8	7	2	9	5	3	2	1	3	4	66

No. 12.

DEATHS DURING THE YEAR 1893 BY MONTHS,
SHOWING THE AGE BY YEARS.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Deaths from all causes	395	414	493	395	427	414	510	598	353	370	405	487	5,261
Under 1 year	95	127	144	94	103	114	244	271	128	116	100	113	1,649
1 to 5 years	51	46	55	50	42	44	65	78	49	49	46	52	627
Total under 5 years.....	146	173	199	144	145	148	309	349	177	165	146	165	2,276
5 to 10 years	23	16	19	12	20	15	9	15	14	21	22	15	201
10 to 20 years	19	16	17	18	31	31	25	16	15	16	14	21	240
20 to 30 years	35	30	49	40	49	42	34	37	28	25	26	37	452
30 to 40 years	34	33	49	41	41	40	29	43	20	27	26	38	421
40 to 50 years	31	28	33	34	35	40	34	35	25	35	32	34	385
50 to 60 years	31	37	47	27	30	31	24	22	17	19	38	40	363
60 to 70 years	34	38	37	29	35	24	20	27	27	35	45	48	369
70 years and over	42	43	43	50	41	33	26	54	30	27	56	89	557

No. 13.
TABLE SHOWING NUMBER OF BIRTHS EACH MONTH FOR YEAR ENDING DEC. 31, 1893.

MONTHS.	BIRTHS, EXCLUSIVE OF STILLBIRTHS.		COLOR.				SEX.		NATIVITY.									
	White.	Colored.	Male.	Female.	Native.	Foreign.	Native Mother.	Foreign Mother.	TWINS AND TRIPLETS.			ILLEGITIMATES.		Total Children.				
									Native.	Foreign.	Native Mother.	Foreign Mother.	Total Children.		Triplets.	Native Mother.	Foreign Mother.	
January	824	5	440	389	229	513	44	20	.....	4	.....	.....	.....	.....	.....	8	7	15
February	806	5	424	387	188	514	56	21	1	7	1	.....	.....	.....	.....	18	7	14
March.....	698	3	359	332	196	416	43	10	3	6	.....	.....	.....	.....	18	2	6	8
April.....	764	5	425	344	213	450	56	31	1	6	.....	.....	.....	.....	14	4	1	5
May.....	651	2	354	300	173	391	38	23	1	5	1	5	.....	.....	24	1	4	5
June.....	803	9	431	381	232	474	53	25	1	4	1	.....	.....	.....	12	8	8	16
July.....	777	.....	375	402	201	496	47	22	.....	3	.....	.....	.....	.....	6	5	.....	5
August.....	839	3	434	408	192	558	40	31	2	7	.....	.....	.....	.....	18	3	.....	3
September.....	773	4	413	364	176	508	48	25	6	2	1	.....	.....	.....	18	.....	2	2
October.....	868	9	446	451	188	552	47	34	2	5	2	.....	.....	.....	18	37	21	58
November.....	676	6	353	329	149	465	28	21	3	4	.....	.....	.....	.....	1	3	.....	3
December.....	723	3	403	323	170	468	43	22	4	2	.....	.....	.....	.....	12	3	8	11
Total.....	9,287	54	4,957	4,410	2,307	5,905	543	255	24	55	6	182	.....	.....	81	64	145	

No. 16.
BIRTH REPORT FOR 1893—Continued.

MONTHS.	AGE OF PARENTS.						BIRTHS DURING NINE YEARS.																
	MOTHERS.						FATHERS.						STILL-BIRTHS.		BIRTHS IN YEARS.								
	Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	Not Stated.	Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	50 years & over.	Stillbirths, 1893.	Stillbirths, 1892.	Births in 1892.	Births in 1891.	Births in 1890.	Births in 1889.	Births in 1888.	Births in 1887.	Births in 1886.	Births in 1885.	Births in 1884.
January	39	246	238	286	36	.....	3	109	252	349	87	10	31	33	768	751	826	673	613	582	574	561	587
February	21	238	224	278	38	.....	.....	103	246	337	94	8	39	41	704	741	684	592	639	553	532	544	586
March	24	192	185	253	28	.....	1	76	204	311	79	3	47	33	846	712	730	626	636	580	560	491	619
April	30	236	207	247	42	.....	1	71	257	316	112	20	35	40	779	633	629	575	514	506	530	487	491
May	47	171	179	218	27	.....	12	92	183	244	101	5	43	36	686	679	683	608	507	548	524	506	516
June	39	266	214	255	32	.....	2	120	250	323	90	5	40	40	731	660	626	631	612	514	516	496	528
July	35	227	240	2 4	38	.....	.....	106	237	310	105	12	27	33	809	766	722	722	640	585	543	405	587
August	29	240	290	239	35	.....	5	107	303	335	78	2	37	39	799	752	710	656	722	602	598	547	580
September	35	223	218	254	38	.....	1	96	221	326	110	13	31	41	788	809	628	654	632	568	566	547	550
October	79	261	246	257	43	2	1	110	253	350	102	14	45	44	744	708	659	607	627	541	520	500	547
November	33	188	212	212	29	.....	4	106	223	249	74	15	40	40	680	702	702	678	625	522	509	475	498
December	19	192	238	244	27	.....	.....	79	186	336	100	8	32	50	755	769	769	710	590	610	555	506	561
Total	433	2,680	2,661	2,957	413	2	30	1,173	2,795	3,786	1,132	115	447	470	9,108	8,692	8,366	7,732	7,357	6,711	6,547	6,125	6,610

No. 15.

NUISANCES ABATED IN 1893 BY SANITARY POLICEMEN.

Nuisances.	Andr2ws, 7½ mos.	Armstrong.	Beakel.	Brown, 8 mos.	Dwyer.	Goodrich.	Jones, 6 mos.	McLaron and Robertson.	Morris.	Newcomb.	Nevins.	Neeson, 28 days.	O'Brien, 7½ mos.	Redinger.	Schnauffer.	Stearns.	Shannon.	Whitman.	Total.
Alleys filthy.....	142	97	29	81	47	17	13	128	21	26	119	43	45	20	28	48	904		
Gutters filthy.....	135	25	39	38	30	30	15	110	56	15	14	23	76	19	7	47	679		
Catch basins.....	98	24	20	38	13	5	9	10	70	2	17	34	8	24	45	417			
Houses filthy.....	25	91	21	21	142	46	7	15	146	51	5	13	58	57	2	11	23	734	
Yards and lots filthy.	275	380	221	193	144	557	105	17	209	127	9	285	438	72	17	76	71	3196	
Cisterns filthy.....	26	9	13	29	25	13	4	21	7	2	10	24	4	26	213				
Wells examined.....	16	3	3	11	26	6	15	1	15	1	2	33	14	6	7	143			
Wells condemned.....	7	3	2	5	13	3	1	27	1	1	1	21	12	2	3	101			
Wells filled.....	35	2	2	5	31	1	27	1	1	13	9	9	1	4	5	145			
Notices to remove ashes, etc.....	210	572	549	285	158	150	51	317	977	668	42	118	564	1641	55	437	476	7270	
Notices to remove manure.....	111	167	217	150	206	188	61	76	309	389	21	155	196	660	46	208	104	3264	
Stables filthy.....	85	21	18	49	17	41	1	30	26	42	44	86	13	9	482				
Chicken Coop filthy..	5	176	104	30	57	151	118	2	107	66	12	64	162	67	20	35	10	1186	
Privies filthy.....	799	49	8	207	135	455	63	202	104	816	48	375	182	730	38	29	4240		
Old Privies closed....	10	85	27	20	13	84	37	12	107	60	9	26	22	75	51	123	16	777	
New Privies.....	10	40	13	9	22	150	28	5	135	17	24	11	80	125	15	117	44	845	
Privies cleaned.....	44	481	661	187	166	638	400	196	810	512	772	441	581	384	592	400	365	7630	
Privies repaired.....	12	27	3	26	13	8	18	47	25	1	40	19	6	20	5	14	284		
Water closets.....	100	7	7	140	4	21	24	13	4	3	58	5	6	392					

No. 16.

NUISANCES ABATED IN 1893, BY SANITARY POLICE-
MEN—*Continued.*

Nuisances.	Andrews, 7½ mos.	Armstrong.	Beakel.	Brown, 8 mos.	Dwyer.	Goodrich.	Jones, 6 mos.	McLaren and Robertson	Morris.	Newcomb.	Nevins.	Neeson, 28 days.	O'Brien, 7½ mos.	Redinger.	Schnauffer.	Stearns.	Shannon.	Whitman.	Total.
Cesspools cleaned.....		55	3	6	6	7	2		7	3			13	12		4		3	121
New cesspools.....		3	2	3					10	2				3					23
Notice swill & garb'ge	85	601	425	209	340	400	6	232	1146	557	7		204	305	1305		324	478	6624
Pig pens.....			13		1	2													16
Dead animals.....	14	62	59	15	36	348	127	9	150	47	7		32	96	96	77	57	76	1234
Slaughter houses.....		3			92	4	5		2		17		7	3	3	1		225	361
Soap factories.....	2				75	1					2							2	83
Slaughter license.....	34	8	13	1	7		1	4	6	11	20		5	22	22	9	6	13	168
Milk licenses.....		66	29	4	116	53		49	57	69	32		28	48	48	184	62	65	883
Cattle yards.....	4				65					1	4								74
Notice to drain ponds			3	2	2	8	5		46	1	3		3	1	1		7	1	82
Sewers.....	7	65	33	52	28	171	36	20	509	130	15		18	30	30	126	120	141	1519
Sewers stopped.....	16	90	117	61	145	39	1	99	237	111	13		51	46	46	206	97	127	1479
School build- ings examined }		24	17	5	46	23		4	14	10	5		2	12	12	12	4	3	190
Contagious diseases...	57	57	101	73	87	181	60	38	147	115	97		23	96	96	95	141	118	1610
Birth reports gath'r'd		407	945	86	460	800	460	577	774	514	662		150	610	610	699	612	600	9054
Miscellaneous.....	1863	3215	2479	1026	1154	5002	840	1942	3008	1674	5319	233	256	3595	3595	2467	2340	4349	43 30
Arrests.....		1						5	7		1			2	2	2		1	19
Death reports gathered }		61	37	5	16	9	17	20		20	6		5	7	7	36	10	6	256
Smoke nuisances.....	104											1							105
Total for each.....	2876	8165	6356	2587	4213	9366	2946	3784	9561	5477	7969	234	2193	7586	8846	5565	5353	7556	100633

3,756 Office complaints received during the year 1893.

100,633 visits by Sanitary Police during the year 1893.

Report of the Inspector of Food.

—

Dr. George F. Leick, Health Officer.

DEAR SIR:—I have the honor to submit herewith my report of the Inspector of Food for the City of Cleveland, for the year ending Dec. 31st, 1893.

The record book on Milk Analysis shows as follows :

For the month of	January,	samples analyzed.....	156
“ “ “ “	February,	“ “	..... 157
“ “ “ “	March,	“ “	..... 227
“ “ “ “	April,	“ “	..... 174
“ “ “ “	May,	“ “	..... 163
“ “ “ “	June,	“ “	..... 224
“ “ “ “	July,	“ “	..... 257
“ “ “ “	August,	“ “	..... 208
“ “ “ “	September,	“ “	..... 160
“ “ “ “	October,	“ “	..... 63
“ “ “ “	November,	“ “	..... 26
“ “ “ “	December,	“ “	..... 6
A total of “ “			.....1821

Of these samples 7 were cream ; the remainder were cows' milk.

54	samples	were	found	to	be	skimmed.
26	“	“	“	“	“	watered.
2	“	“	“	“	“	both skimmed and watered.
27	“	“	“	“	“	sophisticated.
13	“	“	“	“	“	impure.
10	“	“	“	“	“	below standard.
4	“	“	“	“	“	adulterated.
7	“	“	“	“	“	sour.
1	sample	was	“	“	“	fermenting.
3	samples	were	“	“	“	with bad odor and taste.
1	sample	was	“	“	“	curdled.
1	“	“	“	“	“	gargety.
2	samples	were	found	to	contain	boracic acid.

Microscopic examination was also made of 3 samples of the milk of animals suffering from foot and mouth disease.

The remaining samples, about 1675 in number, were not recorded, as being unfit for use.

In addition to the above samples of milk, a number of other articles of food were subjected to chemical and microscopical analysis with results as follows:

FLOUR—22 samples. Of these 11 were found to be good flour; 4 were below standard; and the remaining 7 were more or less adulterated.

BUTTER, BUTTERINE and OLEOMARGARINE—36 samples examined.

VINEGAR—16 samples examined.

CHEESE—7 samples examined, 6 of which contained tyrotoxicon and the remaining one showed traces of lead.

WATER—43 samples analyzed.

POPCORN—4 samples examined; 3 of them showed traces of arsenic.

The foregoing is an abstract from the books of the Food Inspector, Dr. Joseph Mellor.

Respectfully,

H. L. PAYNE,

Inspector of Food.

MONTHLY AVERAGES OF MILK INSPECTION.

GENERAL.

Month.	Specific Gravity.	Solids.	Fat.	Solids not Fat.	Water.
January.....	1.0322	12.39	3.02	9.37	87.61
February.....	1.0323	12.65	3.22	9.43	87.35
March.....	1.0318	12.57	3.26	9.31	87.43
April.....	1.0316	12.60	3.29	9.31	87.40
May.....	1.0319	12.54	3.19	9.35	87.46
June.....	1.0324	12.39	2.99	9.40	87.61
July.....	1.0318	12.38	3.12	9.26	87.62
August.....	1.0312	12.50	3.30	9.20	87.50
September.....	1.0310	12.46	3.28	9.18	87.54
October.....	1.0315	12.21	3.04	9.17	87.79
November.....	1.0322	12.48	3.04	9.44	87.52
December.....	1.0321	12.21	2.89	9.32	87.79
Annual.....	1.0319	12.45	3.15	9.30	87.55

Report of the Inspector of Plumbing and Sewers.

Dr. George F. Leick, Health Officer :

DEAR SIR:—As Inspector of Plumbing and Sewers, I have the honor to submit to you my annual report for the year ending December 31st, 1893.

Laws have been enacted in nearly all cities and many states prescribing the manner in which plumbing and house-drainage shall be done, and the placing of fixtures therein.

Here in Cleveland plumbing has advanced in a remarkable manner, and I consider the ordinance requiring inspection of all plumbing and sewer work one of the most valuable and wisest ordinances ever passed by the Common Council. Our citizens are becoming educated in sanitary matters, and realize that good plumbing is necessary to give them healthy homes.

In the past year we have issued eleven hundred and eighty-one (1181) permits for plumbing in new houses; seventeen hundred and forty-three (1743) permits for plumbing in old houses; ten hundred and twenty-two (1022) permits for sewer connections to new houses; fifteen hundred and ninety-eight (1598) permits for sewer connections to old houses, and five hundred and ninety-eight permits for sewer extensions and repairs, making a total of six thousand one hundred and forty (6140) permits issued for all purposes.

Final inspections have been made upon two thousand and thirty-five (2035) plumbing jobs, eight hundred and forty-six

(846) in new buildings and eleven hundred and eighty-nine (1189) in old buildings. Also final inspection of twenty-one hundred and eighteen (2118) water closets have been made, which were placed within buildings or upon premises.

Final inspections have been made upon two thousand and ninety-six (2096) sewer jobs; thirteen hundred and sixty-four (1364) of which were for connections to old houses, and seven hundred and thirty-two (732) were for connections to new houses. We have made during the past year four thousand, seven hundred and thirty-seven (4,737) inspection visits of plumbing, and twenty-eight hundred and eighty-two (2882) inspection visits of sewers, making a total of seven thousand, six hundred and nineteen (7619) inspections of plumbing and sewers.

Four hundred and seven (407) plumbing and sewer jobs were found to be defective by our inspectors, three hundred and fifteen (315) plumbing, and ninety-two (92) sewer jobs.

I found it necessary to serve one hundred and eighty-eight (188) written notices upon plumbers and sewer builders notifying them to remedy defective work done by them.

One hundred and forty-five (145) special examinations of plumbing and house-drainage have been made in the past year by request of interested persons. In many instances extensive alterations and repairs have been made as the result of these inspections.

No charges are made for such inspections or services, notwithstanding much time is required and great care must be exercised in making these inspections.

The public are to be congratulated upon the course of the Board of Education in abandoning what is known as the Dry Closet System in all of the new school buildings now in course of construction and those erected during the past two years, and the substitution of the water carriage system within the buildings.

No reasonable excuse can be given for using the Dry Closet in this city. We have a splendid system of sewers, and plenty of water to keep them flushed and clean. The system for removing excreta and slop water by what is known as the water carriage system in underground conduits is the best for health and economy. It commends itself on account of the rapid and complete manner in which the removing of waste matter can be accomplished.

Local conditions should be taken into consideration in governing the choice of systems. Of course where no proper sewers have been constructed, or where the final disposal of sewerage matter cannot be safely provided for, the Dry Closet might be tolerated, but not otherwise.

There is no mechanical pursuit in which skill and intelligence are more requisite than in the plumbing trade. If the plumber desires to keep pace with the march of progress he must be thoroughly posted in sanitary matters, for many diseases may have their origin in defective plumbing. The master plumber and journeyman plumber should thoroughly understand their trade; but I am sorry to say that this is not the case in Cleveland. There are men engaged in the plumbing business in this city that are a disgrace to the trade. They have no knowledge of sanitary matters, and I consider them a fraud upon the public at large. As I said in a former report, the master and journeyman plumber should be compelled to undergo an examination, and if not qualified should not be allowed to engage in or practice the plumbing trade. This will require legislative enactment in the Legislature, and I understand that a bill of this character

will be introduced this winter, which, if it becomes a law, will be of great benefit to the public.

• I desire to call your attention to the lack of a sufficient number of assistant inspectors in this branch of the Health Division.

The work is constantly increasing with the natural growth of the city, and with the annexation of the villages of West Cleveland and Brooklyn, it will be impossible with the present limited number of assistants to give the proper attention and inspection to plumbing and sewerage that should be given such work.

During the past year we have been working at a great disadvantage, having only three assistants the greater part of the year ; many jobs did not receive the close attention while in the course of construction that should have been given them. I therefore deem it necessary that at least three more assistants be appointed in this branch of the health department.

Hoping that my suggestions will meet with your approval,
I remain,

Yours respectfully,

THOMAS SMITH,

Inspector of Plumbing and Sewers.

SUPERINTENDENT OF MARKETS' REPORT FOR 1893-

CONFISCATED MEATS, VEGETABLES, ETC.

176	Carcasses of Veal.
158	“ “ Sheep.
29	“ “ Beef.
47	“ “ Hogs.
198	“ “ Chickens.
7	“ “ Ducks.
4	“ “ Geese,
600 pounds	Fish.
4 dozen	Pigs' feet.
64 pounds	Sausage.
566 pounds	Corned Beef, Pork, etc.
6½ bunches	Bananas.
8 bushels	Nuts.
392 quarts	Berries.
2 bushels	Beans.
7½ bushels	Peas.
6 boxes	Lemons.
5 baskets	Plums.
59	Melons.
17 bushels	Tomatoes.
80	“ Peaches.
4½	“ Pears.
3½	“ Mushrooms.

Respectfully,

LOUIS POSS,

Superintendent of Markets.

Report of the Police Court.

POLICE COURT OFFICIALS.

J. T. LOGUE, Judge of Police Court.

WM. F. FIEDLER, Prosecutor of Police Court.

THOS. M. KENNEDY, Assistant Prosecutor Police Court.

H. L. LILLY, Assistant Prosecutor Police Court.

THEO. F. McCONNELL, Clerk of Police Court.

WM. JONES, Deputy Clerk of Police Court.

A. B. HONECKER, Deputy Clerk of Police Court.

TONY A. DEISNER, Deputy Clerk of Police Court.

ART. A. KUNTZ, Deputy Clerk of Police Court.

CLEVELAND, O., January 17, 1884.

To Honorable City Council :

GENTLEMEN—I hereby submit my report of proceedings of the Police Court of the City of Cleveland, Cuyahoga County and State of Ohio, for the year ending December 31, 1893.

Yours respectfully,

THEO. F. McCONNELL,

Clerk of Police Court.

**ANNUAL REPORT OF THE CLERK OF THE POLICE
COURT FOR THE CITY OF CLEVELAND FOR
THE YEAR ENDING DECEMBER 31, 1893.**

City cases, number of persons arraigned for 1893.....	6,144	
State cases, number of persons arraigned for 1893.....	2,549	
State examination, number of persons arraigned for 1893.....	455	
Justice cases, number of persons arraigned for 1893.....	145	
		9,293
City cases, number of persons committed to workhouse.....	1,778	
State cases, number of persons committed to workhouse.....	648	
Number of boys committed to Industrial School.....	40	
Number of persons committed to Industrial School.....	1	
		2,468
City cases, number of days on commitment to workhouse.....	9,020	
State cases, number of days on commitment to workhouse.....	6,728	
		15,748
CITY CASES.		
Amount of fines assessed.....	\$14,943 00	
Amount of costs assessed.....	17,931 55	
Amount of costs from previous months.....	669 45	
Amount of costs from search warrant.....	18 00	
Amount of costs from bond forfeiture.....	40 00	
Amount of costs from over paid.....	11 80	
		\$33,613 80
Amount collected in city cases.....	\$16,996 30	
Amount of fines on commitment to workhouse.....	8,794 00	
Amount of costs on commitment to workhouse.....	6,429 35	
Amount of costs in cases nolle.....	29 00	
Amount of costs uncollected.....	759 35	
Amount of costs in cases dismissed.....	332 20	
Amount of costs in city cases on error.....	210 60	
Amount of fines remitted.....	13 00	
		\$33,613 80
Amount of jurors' and witness' fees certified to City Auditor.....	\$ 898 50	
		\$ 898 50

ANNUAL REPORT OF THE CLERK OF POLICE COURT—Continued.

STATE CASES.		
State cases, amount of fines assessed	\$ 15,622 00	
State cases, amount of costs assessed	19,051 15	
Amount collected from previous month	1,228 30	
Amount collected from state examinations.....	115 80	
Amount collected from justice cases.....	174 65	
		\$ 36,191 90
Amount collected in state cases	\$ 11,711 75	
Amount of fines on commitment to workhouse	10,908 00	
Amount of costs on commitment to workhouse	4,853 75	
Amount of costs in cases nolleed	249 00	
Amount of costs in cases uncollected.....	3,637 85	
Amount of costs in cases dismissed	3,398 95	
Amount of costs in cases on error	1,121 60	
Amount of costs in cases on bond forfeiture	11 00	
		\$ 36,191 90
STATE EXAMINATION.		
Amount of costs in cases bound over	\$ 3,992 30	
Amount of costs in cases discharged	1,025 10	
Amount of costs in cases nolleed	219 00	
Amount of costs in cases bond forfeiture	20 00	
		\$ 5,256 40
Amount of witness and jurors' fees in state cases.....	\$ 12,069 00	
		\$ 12,069 00
JUSTICE CASES.		
Amount of costs in cases discharged.....	\$ 2,002 40	
Amount of costs in cases sentenced.....	900 50	
Amount of costs in cases on error	167 55	
		\$ 2,470 45
DISTRIBUTION OF FINES AND COSTS.		
City cases, due Police Court Fund.....	\$ 11,321 95	
City cases, due Director of Police, service of writs.....	3,818 35	
City cases, due Police Pension Fund, officers' fees.....	1,856 00	
		\$ 16,996 30
State cases, due Police Court Fund.....	\$ 8,549 85	
State cases, due Director of Police, service of writs	2,137 90	
State cases, due Police Pension Fund, officers' fees.....	1,024 00	
		\$ 11,711 75
Total amount in city and state cases.....	\$ 28,708 05	
		\$ 28,708 05

NUMBER OF STATE EXAMINATIONS DISPOSED OF
DURING THE YEAR 1893.

Grand larceny.....	89
Burglary and larceny.....	134
Cutting with intent to wound.....	23
Pocket picking.....	31
Robbery.....	36
Shooting with intent to kill.....	5
Maiming.....	3
Attempt burglary and larceny.....	13
Receiving stolen property.....	4
Murders.....	13
Burglary.....	7
Arson.....	5
Stabbing with intent to wound.....	5
Assault with intent to rob.....	5
Shooting with intent to wound.....	9
Assault with intent to rape.....	2
Obtaining money by false pretenses.....	3
Manslaughter.....	6
Enticing females under age.....	1
Cutting with intent to kill.....	5
Horse stealing.....	3
Embezzlement.....	10
Forgery.....	13
Assault with intent to kill.....	10
Sodomy.....	4
Bigamy.....	2
Rape.....	4
Fugitive from justice.....	7
Violating Section 7027, R. S.....	1
Attempt to procure abortion.....	1
Attempt to burn storehouse.....	1
Total number.....	455

NUMBER OF STATE CASES DISPOSED OF DURING
THE YEAR 1893.

Intoxication.....	372
Petit larceny.....	712
Assault and battery.....	689
Neglecting minor children.....	21
Assault.....	15
Wrongfully using horse.....	25
Incorrigible conduct.....	21
Violating railroad law.....	248
Violating Sunday liquor law.....	30
Carrying concealed weapons.....	68
Contempt of court.....	12
Keeping house of ill-fame.....	7
Indecent exposure of person.....	12
Injuring property.....	3
Cruelty to animals.....	6
House breaking.....	8
Embezzlement.....	17
Destroying property.....	4
Receiving stolen property.....	21
Threatening in a menacing manner.....	10
An affray.....	3
Violating junk law.....	8
Entering premises to steal property.....	4
Entering premises to steal chickens.....	1
Barbering on Sunday.....	3
Gambling.....	13
Resisting officer.....	2
Juvenile disorderly person.....	40
Selling intoxicating liquor to intoxicated person.....	1
Selling adulterated food.....	1
Malicious destruction of property.....	4
Obstructing officer.....	20
Obtaining goods by false pretenses.....	2
Selling lottery tickets.....	4
Falsely impersonating an officer.....	4
Keeping room for registering bets, etc.....	3

NUMBER OF STATE CASES DISPOSED OF DURING
THE YEAR 1893.

Misconduct on street car.....	1
Selling liquors to minors.....	2
Aiding and assisting and attending an affray.....	20
Keeping disorderly house.....	4
Maliciously injuring property.....	7
Keeping a disorderly house.....	2
Obtaining money by false pretenses.....	18
Adultery.....	2
Cohabiting in state of adultery.....	1
Permitting game of chance, etc.....	1
Entering house in day time, etc.....	1
Refusing to provide fire escape.....	1
Truancy.....	9
Maintaining a nuisance.....	4
Abandoning children.....	8
Neglecting to send minor to school.....	4
Pointing fire-arms.....	3
Breaking and entering in day time.....	7
Promoting a scheme of chance.....	1
Allowing minors to enter saloon.....	1
Keeping billiard saloon and permitting minors to play.....	1
Playing crap for money.....	3
Minors entering saloon.....	3
Violating keeper of public house law, section 7000, R. S.....	1
Violating fire escape law.....	1
Escaping from Workhouse.....	2
Maliciously destroying property.....	3
Playing cards for money.....	2
Fornication.....	1
Permitting dog to run at large.....	3
Defrauding inn-keeper.....	2
Cohabiting in state of fornication.....	1
Torturing minor children.....	1
Playing dice for money.....	1
Wrongfully using gas.....	1
Trespassing by destroying trees.....	8
Wrongfully using railroad property.....	1
Violating election law.....	1
Entering premises for purpose of carrying away poultry.....	5
Selling liquor on election day.....	1
Cock fight.....	1
Total number.....	2,549

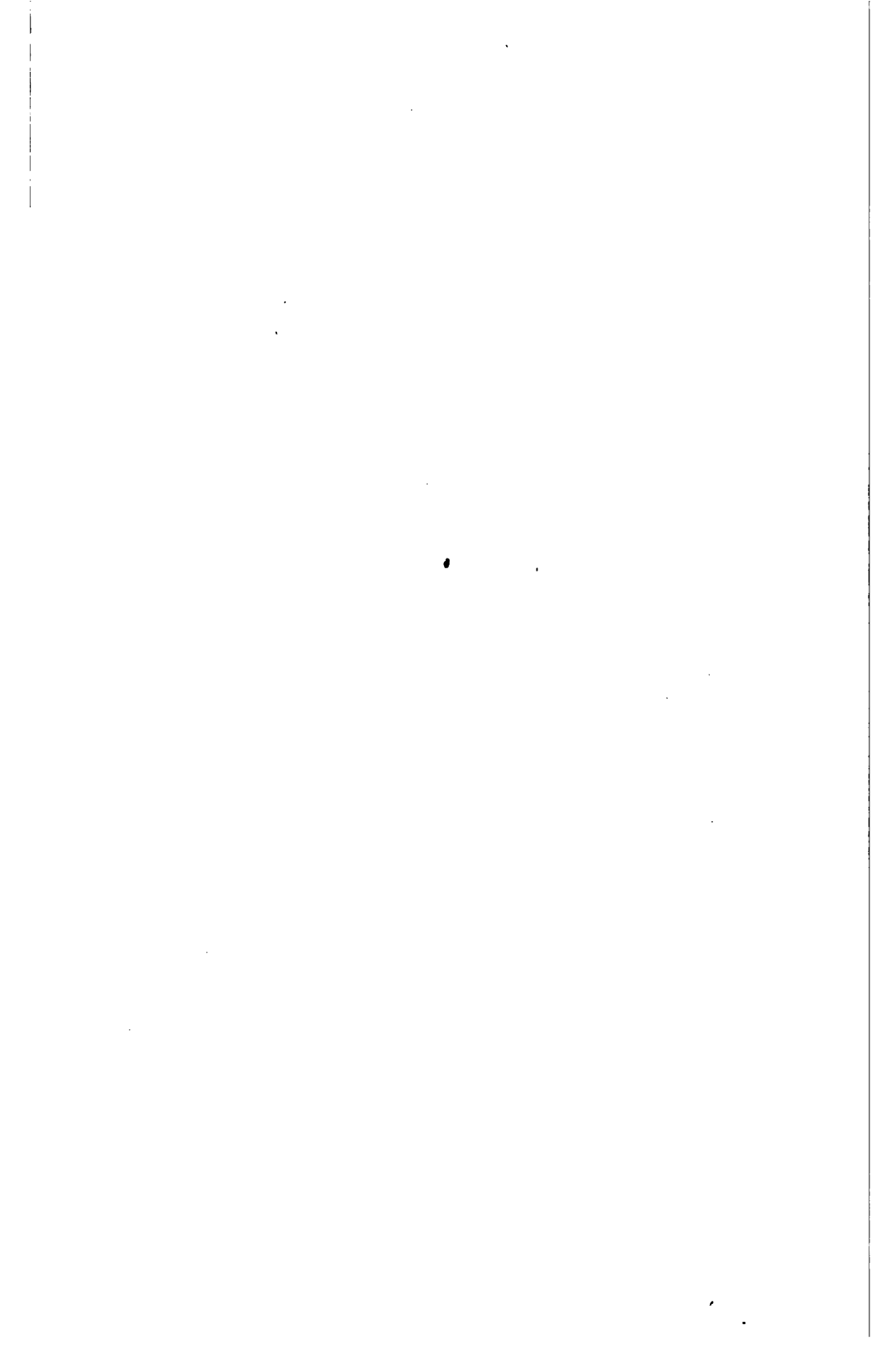
NUMBER OF JUSTICE CASES DISPOSED OF DURING
THE YEAR 1893.

Petit larceny.....	8
Assault and battery.....	53
Destroying property.....	7
Converting mortgaged property.....	2
Maintaining a nuisance.....	2
Obtaining money by false.....	1
Adultery.....	2
Attempt to provoke breach of peace.....	17
Embezzlement.....	3
Receiving mortgaged property.....	1
Cohabiting in state of adultery.....	1
Attempting to coerce.....	2
Verbal libel.....	14
Cohabiting in state of fornication.....	1
Pointing arms without malice.....	1
Indecent exposure.....	1
Injuring property.....	1
Obtaining goods by false pretenses.....	1
Obtaining money by false pretenses.....	1
Playing base ball on Sunday.....	8
Defrauding inn-keeper.....	2
Criminal libel.....	2
Selling coal by false weight.....	4
Keeping opium joint.....	1
Visiting place where opium is smoked.....	1
Visiting and residing in opium joint.....	7
Unlawfully removing grave stone.....	1
Total number.....	145

NUMBER OF CITY CASES DISPOSED OF DURING
THE YEAR OF 1893.

Intoxication.....	4,578
Disturbance.....	287
Disorderly conduct.....	378
Vagrancy.....	133
Suspicious person.....	81
Visiting gambling room.....	5
Residing in house of ill-fame.....	15
Visiting house of ill-fame.....	17
Common beggar.....	18
Destroying property.....	60
Careless driving.....	9
Common prostitute.....	20
Known thief.....	1
Playing billiards on Sunday.....	1
Keeping house of ill-fame.....	2
Depositing dirt in alley.....	1
Entering new building.....	2
Maintaining a nuisance.....	1
Exhibiting with license.....	2
Setting fire to combustibles.....	1
Assault and battery.....	26
Petit larceny.....	9
Wrongfully using a horse.....	1
Violating sidewalk ordinance.....	97
Violating property ordinance.....	139
Violating street ordinance.....	72
Violating peddlers' ordinance.....	51
Violating street railway ordinance.....	26
Violating fire arm ordinance.....	30
Violating health ordinance.....	10
Violating music ordinance.....	8
Violating bill posters' ordinance.....	5
Violating gas lamp ordinance.....	1
Violating bathing ordinance.....	31
Violating market ordinance.....	3
Violating park ordinance.....	3
Violating red light ordinance.....	1
Violating whistle ordinance.....	1
Violating fire ordinance.....	1
Violating smoke ordinance.....	7
Violating fire hose ordinance.....	1
Violating dray ordinance.....	1
Violating express ordinance.....	2
Violating harbor ordinance.....	1
Violating second-hand ordinance.....	1
Violating junk ordinance.....	2
Violating int. and employe t ordinance.....	1
Total number.....	6,144

DEPARTMENT
OF
FIRE SERVICE.



Report of the Director of Fire.

CITY OF CLEVELAND, OHIO, }
JANUARY 1st, 1894. }

To the Honorable Robert Blee, Mayor of Cleveland, Ohio :

DEAR SIR:—In conformity with the usual custom, I respectfully submit the report of the Department of Fire for the year ending December 31st, 1893, containing the reports of the Chief, Secretary, Superintendent of Machinery, Medical Officer, Veterinary, Chief Operator, Boiler and Building Inspectors, Examiner of Engineers, and Electrician.

The resources for the year were \$617,711.46; this includes \$247,000 00 for the sale of bonds, and with this amount it was desired to so arrange affairs as to give the members one-third time off. To accomplish this would require a large increase to the force, and to pay the salaries would leave the Department without the necessary apparatus to extinguish fires; therefore, I deemed it more expedient to increase the efficiency of the Department by replacing some of the worn-out apparatus with new, and add more companies, in order to satisfy the constant and justifiable demands being made by the taxpayers for better protection against fire.

Accordingly arrangements were made to purchase six new engines, three new trucks, a water tower, a new fire boat, and to construct three new engine houses.

The expenditures in the aggregate for the year amount to \$369,711.22; this includes \$7,550 paid for land, \$18,500 for new apparatus, \$14,744 on new buildings. For a detailed statement your attention is called to the following reports.

Having succeeded my predecessor, Hon. G. W. Gardner, on April 18th, 1893, as a natural consequence, many suggestions were made as to what changes should be made as to the "*modus operandi*" of managing the department, all of which were duly considered, but to satisfy the demands of all was found to be impossible, and the course taken has been in accordance with what I considered for the best interest of the department. It is true, a sufficient number of men could have been added to give one-third time off, but the efficiency of the department would have been lessened rather than increased. Under the circumstances the best that could be done was to add enough men so as to give one "day off" in five.

This department now consists of 287 men distributed among 18 engine companies, seven hook and ladder companies, a hose company, and the Fire Alarm Telegraph branch, and with the addition of Brooklyn and West Cleveland, more companies must be added to protect this territory, and it will require an appropriation of no small amount to meet the expenses of this important branch of our municipal government.

The number of fires during this year was 1174, an increase of 69 over 1892. The losses were \$684,000, a decrease of nearly \$1,000,000.

I desire to express my full appreciation of the efforts of the Chief, his assistants and the members of the force to perform the duties assigned them. Their united efforts have sustained the reputation of this department for efficiency and placed it in the front rank.

My thanks are also due to the Police Department for courtesies extended in aiding this department at fires, also to the Mayor for his valuable counsel.

Respectfully submitted,

H. H. HYMAN,

Director of Fire Service.

Report of Chief.

CLEVELAND, O., Dec. 31, 1893.

Hon. H. H. Hyman, Director of Fire Service :

I have the honor to present to you my thirteenth annual report of the work, condition and requirements of the fire department of this city, for the year ending December 31, 1893.

During the past year the grand total of alarms was 1,175, as against 1,118 alarms the preceding year. The number of working fires were 657, and of the number there were 48 calls for additional apparatus. Of box alarms there were 906, and of still alarms 269. Included in the aggregate there were 25 false alarms.

The loss by fire in 1893 amounted to \$684,772.16, or nearly one million dollars less than in 1892, while the number of alarms of fire in 1893 were 59 greater than in 1892.

The property affected by fire during the past year was insured for \$3,969,411.50. The owners' loss was \$519,444.61, and the occupants' loss was \$165,027.55. Owners were insured for \$3,173,681.50. and the occupants for \$795,130.00.

This startling, yet most gratifying, reduction of the fire loss in this city for the past year can justly be attributed to the prompt response, quick action and efficient service of the members of the department.

The annual summary will exhibit the engine companies engaged, fires attended, miles run, fires worked at, number of feet of hose used and hours worked at the fires of the past year. (See Table A.)

I would respectfully refer you to the accompanying report of the Chief Operator upon the condition of the fire alarm telegraph and telephones; to the report of the Superintendent of Machinery as to the state of the apparatus of the department; to the report of the Surgeon relative to the health of the members of the department, and to the report of the Veterinary as to the condition of the horses in the department.

Many of the fires of the past year were caused by the negligent use of occupied buildings, and the exposure to fire of combustible and other material or refuse therein, and I deem it my duty again to earnestly urge the passage of a stringent ordinance making it the imperative duty of every member of the police force, sanitary police, inspector of boilers and furnaces, as well as members of the fire department to inspect and report upon places negligently used for storing combustible or other materials and refuse exposed to fire. In this connection, I would repeat a remark in the previous year's report, that "the only way to stop fires is to prevent them by a thorough and systematic inspection of the buildings of the city."

It is a great pleasure for me to be able to announce that with the contemplated improvements and additions to the department in the near future, it will receive more substantial growth and strength than it has ever had. With plans projected and being carried out in the location and erection of fire stations, the property in the city will be fairly well protected from the damages by fire. Hereafter, if the apparatus is kept up each year equal to the growth of the city, the efficiency of the fire department will not only be maintained but increased, and the burden of taxation upon the people to effect this will scarcely be felt.

It is also gratifying for me to know that the repeated recommendations during the past years for new stations on Clark and Willson avenues are being carried out. A new hook and ladder company on Central avenue near Erie street is to be established, and a new fire boat is about to be built. The purchase of a water tower and the contracts for six new fire engines (three to replace worn out ones and three for new companies,) have been made. When all this is completed, it will place a new company (No. 19) on Willson avenue, a new company (No. 20)

on Clark avenue, a hook and ladder company (No. 7) at the new station (No. 3) on Central avenue, a new fire boat and a water tower.

The action of the City Council in regard to more time off for the members of the department has been carried out as far as practicable, and one day off in every five is allowed them. This has proved most satisfactory by greatly adding to the efficiency of the force in providing more men for the apparatus in case of fire.

Plans are already prepared to place wagons constantly loaded with coal ready for use in each battalion district.

The proceeds from the \$247,000.00 of bonds to strengthen and increase the efficiency of the department could never in its history have been appropriated at a time when the necessities of the department were more urgent for its actual maintenance and will be judiciously and effectively expended.

The annexation of Brooklyn and West Cleveland to the city seems to be assured, and when completed will involve the placing of apparatus in each annexed district. In view of this engine house No. 12 has been remodeled so as to be a double station, and a hook and ladder ordered will partly cover the district of West Cleveland, and it will also relieve hook and ladder No. 2 from running to that part of the city and the heavy apparatus near the center of the city.

The hook and ladder at No. 5 house will be replaced by larger and lighter apparatus so as to protect the district of Brooklyn.

Before closing my report I desire to congratulate you upon the great and material advance the department has obtained during your administration, and return to you my sincere thanks for the kind treatment of me by you. I also desire to acknowledge my obligations to the assistant chiefs for their faithful discharge of duty; to the members of the department for their efficiency, and to the police force for assistance at fires of the past year.

Respectfully submitted,

J. W. DICKINSON,

Chief C. F. D.

SERVICE 1893.

	Alarms Attended.	Works on Fires.	Hours Worked.	Miles Run.	Feet of Hose Used.	Calls by Veterinary.
Engine No. 1.....	147	28	58¾	17½	10,250	15
" 2.....	220	60	81¾	249½	24,600	14
" 3.....	277	116	143¼	428	41,050	24
" 4.....	147	38	58½	278½	16,900	19
" 5.....	130	59	82½	254	18,750	26
" 6.....	196	87	114	417	30,550	31
" 7.....	192	61	106½	483¼	32,300	38
" 8.....	126	56	100	274	21,600	12
" 9.....	120	50	70½	291½	24,500	33
" 10.....	74	31	40¾	161	11,100	89
" 11.....	83	39	60¾	229¼	21,750	41
" 12.....	103	69	92½	190½	18,350	12
" 13.....	118	48	71¼	37½	20,400	4
" 14.....	218	69	109	337	22,450	2
" 15.....	89	18	85	187½	10,900	.....
" 16.....	75	40	40¾	149	13,000	16
" 17.....	198	62	111	591¼	25,150	47
" 18.....	150	91	158¾	331¼	30,750	29
H. and L. No. 1.....	282	182	193	447¾	.....	40
" 2.....	212	102	127¼	441¼	.....	18
" 3.....	232	129	156¼	689¼	.....	33
" 4.....	84	66	65¾	276¼	.....	9
" 5.....	96	61	59	218	.....	11
" 6.....	218	118	176¾	609½	.....	6
Hose No. 1.....	133	55	126½	23¼	17,850	13
Chemical A.....	327	69	43¾	394½	17,250	.....
" B.....	189	41	41	372½	10,300	.....
" C.....	176	31	27	492	9,300	.....
" D.....	87	36	59	157¾	5,400	.....
			2,661¼	9,834¼	454,450	

Report of Superintendent of Machinery.

H. H. Hyman, Director of Fire Service:

SIR:—I have the honor to submit my annual report for the year ending December 31, 1893.

APPARATUS IN ACTIVE SERVICE

Consists of seventeen steam fire-engines, one fire-boat, fifteen hose wagons, three four-wheeled hose carriages, six hook and ladder trucks, one aerial ladder, four two-wheeled chemical engines, five chief's buggies, one superintendent machinery's buggy, two telegraph wagons, one two-wheel gig for boiler inspector, two general delivery wagons, one truck for moving telegraph poles, fourteen exercise wagons.

APPARATUS IN RESERVE.

Two chief's buggies, two first size steam fire-engines, two hose wagons, one hose carriage, one old hook and ladder truck, two supply wagons.

ENGINES AND APPARATUS.

On this account there has been expended \$6,452.00. Included in this sum there have been made the following expenditures for new apparatus or articles pertaining thereto:

Remodeling hook and ladder truck No. 4, \$727.82; two new sets of wheels for engines Nos. 2 and 3, cost \$406.00; one new set wheels for hook and ladder No. 3, \$135.00; one new set wheels for hook and ladder No. 2, \$135.00; two new hose wagons, \$592.00; new suction, \$257.69; heaters and their attachments, \$150.00; new ladders, \$150.00.

Total paid, as above enumerated, \$2,320.51, leaving as an amount paid for repairs to apparatus and articles for operating same the sum of \$3,898.49.

The machinery of the department has done good work during the past year with very satisfactory results. The heavy cost of repairs to some of the hose wagons was caused by collision with electric motors, nearly in every case totally destroying them.

The apparatus, at the close of the year past, was in good working order, with few exceptions. Those are engines 13 and 16, both of which will be replaced with new ones now in course of construction, of modern make and design. No. 11 is an old engine also, and, in my opinion, should be retired from active service.

Hose wagons are all in good order; the hose carriages are only in fair condition.

Hook and ladder trucks in good order, excepting No. 3. I would recommend the purchase of a new truck to replace this old one; then give it a general repairing and keep it in reserve. The department will need it for that purpose.

The chief's buggies are in good order, having been thoroughly repaired and painted, all of them having new tops put on them.

The fire-boat, J. L. Weatherly, is still doing admirable work whenever she is called into active service, but it will be necessary sometime in the near future to give the boat and machinery a thorough overhauling; the hard work that has been done necessitates it. I would recommend that when the time to lay this boat up for repairs comes that, if it can possibly be done, she have double propelling engines placed in her and the machinery of the pump engines strengthened and a steam steering gear placed on board. Then the fire department will have a fire-boat as good as new. Her present reputation is good, but those improvements would make her one of the best of her size in this country.

With the new boat, now in the course of construction, completed and put in commission, the property on the river and adjacent streets will be well guarded and protected.

The superintendent of machinery's buggy and telegraph wagons, also boiler inspector's wagon, are in fair condition. Heaters are all good except the one at Station 12, which is in bad order.

Old hook and ladder 4 is in bad order. It should be condemned as dangerous.

The chemical engines are in good order. Aerial ladder is in good order.

The old protection wagon, now at the house of hook and ladder 5, is used as an exercise wagon; is in bad condition for use for that purpose. By putting a new box on it it could be used for a general delivery wagon to good advantage at a small cost.

There are stored at Station 18 several extra parts of apparatus, such as hose wagon wheels, steamer and hose wagon poles, whiffletrees, wagon shafts, one set of old steamer wheels and forward axle.

I would suggest to you that Engine 10 is the only one in the department that has not got a heater attached, and it is my belief that every fire engine to make it effective should by all means have one. I would therefore ask to have a heater attached to this engine.

Several engines and hose wagons will need painting the ensuing year to put them in presentable condition, which I hope will be done.

I would wish to recommend that a light engine be placed in reserve, as the two now in reserve are too heavy to be used in the outlying districts; on account of the bad condition of the roads it will be almost impossible for an ordinary team to haul those engines to a fire. This is a thing that deserves your attention. Hoping you will consider it favorably, as both reserves are heavy first size engines.

RESERVE APPARATUS—WHERE STATIONED.

Reserve Engine B, stored at fire station No. 4, corner of Church and State streets. Reserve C, at station 9, Willson avenue, south of Woodland avenue. Reserve Hose Wagon, station 18. Reserve supplies, station 18, Croton street. Aerial ladder, station No. 1, corner St. Clair and Academy streets.

In concluding this report permit me to thank you for your kind and very courteous treatment of me during the past year, and hope for the same generous feeling in the ensuing year.

To the chief of the department I give thanks for the same kindly treatment which has been extended to me as in many years past, also for his aid and co-operation.

Respectfully submitted,

C. D. MURPHY,

Superintendent of Machinery.

Forwarded to James W. Dickinson, *Chief.*

Respectfully referred to the Director, H. H. Hyman.

J. W. DICKINSON, *Chief.*

DESCRIPTION OF STEAM FIRE ENGINES.

Engine Co. No.	Manufacturer's Name.	STYLE OF			Size in Inches.			When Placed in Service.	Size.
		Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pumps.		
1	Silaby Man'g Co.	Straight	Drop Tube	Rotary				1885	No. 1 Extra.
2	Clapp & Jones Man'g Co.	Crane Neck	Drop Tube	Piston, double	9	8	5½	1885	No. 1 Extra.
3	Clapp & Jones Man'g Co.	Crane Neck	Drop Tube	Piston, double	8	7	5	1885	1
4	Silaby Man'g Co.	Straight	Drop Tube	Rotary				1880	1
5	Amoskeag Man'g Co.	Crane Neck	Tubular	Piston, double	6½	8	4¼	1875	2
6	Silaby Man'g Co.	Crane Neck	Drop Tube	Rotary				1885	2
7	Silaby Man'g Co.	Crane Neck	Drop Tube	Rotary				1884	3
8	Ahrens Man'g Co.	Straight	Coil	Piston, single	9	8	5½	1878	3
9	Manchester Locomotive Works.	Crane Neck	Tubular	Piston, double	6½	8	4¼	1879	2
10	Ahrens Man'g Co.	Straight	Coil	Piston, single	9	8	5¼	1877	3
11	Silaby Man'g Co.	Straight	Drop Tube	Piston, single				1877	2
12	Silaby Man'g Co.	Crane Neck	Drop Tube	Piston, single				1877	3
13	Silaby Man'g Co.	Straight	Drop Tube	Piston, single				1864	3
14	Silaby Man'g Co.	Crane Neck	Drop Tube	Piston, single				1885	2

DESCRIPTION OF STEAM FIRE ENGINES.

	Manufacturer's Name.	STYLE OF				Size in Inches.			When Placed in Service.	Size.
		Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pumps.			
Engine Co. No. 15..	Thos. Manning, Jr. & Co.....	A Frame.....	Scotch.....	Piston, duplex..	16	10	8	1886	Marine.	
" " 16..	Silsby Man'fg Co.....	Straight.....	Drop Tube.....	Rotary.....				1873	No. 1	
" " 17..	Silsby Man'fg Co.	Crane Neck....	Drop Tube.....	Rotary.....				1891	-3	
" " 18..	LaFrance Fire Engine Co.....	Crane Neck....	Nest Tubes....	Piston, double.....	7¼	8	4½	1892	-3	
Reserve Engine B.	Silsby Man'fg Co.....	Straight.....	Drop Tube.....	Piston, double.....				1873	-1	
" " 0..	Silsby Man'fg Co.....	Straight.....	Drop Tube.....	Piston, double.....				1872	-1	

Report of the Secretary.

DEPARTMENT OF FIRE,
OFFICE OF THE SECRETARY,
JANUARY 1, 1894. }

Hon. H. H. Hyman, Director of Fire Service,

SIR:—I herewith submit my report for the year 1894.

Respectfully,

A. J. SPENCER,

Secretary.

FIRE DEPARTMENT FUND.

RESOURCES.		
Cash balance January 1, 1893	\$ 24,301 00	
Receipts, taxes, city levy	337,434 06	
Earnings, fees and sales	8,976 40	
Loans, sale of bonds	247,080 00	
	-----	\$ 617,711 46
DISBURSEMENTS.		
Ordinary expenses.....	\$346,403 38	
Permanent improvements	23,307 84	

Total disbursements.....		369,711 22

Cash balance, January 1, 1894.....		\$ 248,000 24

DECEMBER'S BILLS PAID IN JANUARY, 1893.

EXPENSES INCURRED IN 1892.

Building Inspector for sundries.....	\$ 18 75
Examiner of Engineers—blank books.....	86 01
Services	10,634 15
Repairs on houses	198 32
Repairs on apparatus.....	1,031 44
Horse shoeing.....	256 16
Horse feed and bedding.....	1,073 60
Harness and harness shop.....	59 38
Hose and hose shop.....	253 81
Fuel and light.....	683 84
House supplies and washing.....	75 07
Miscellaneous supplies.....	357 01
Office expenses.....	16 75
Contingent expenses.....	3,294 59
Fire alarm telegraph.....	364 00
Expenses incurred in 1892, paid January, 1894.....	\$18,402 88

Included in contingent expenses are the following:

Laying the pipe on Huron street.....	\$ 1,004 29
Laying the pipe on St. Clair street.....	826 38
Laying the pipe on Seneca street.....	1,060 55
Street department for paving.....	161 15
Taxes on lot on Croton street.....	98 04

CLAIMS PAID FOR THE FIRST HALF OF 1893.

Building Inspector's claims.....	\$ 81 55
Boiler Inspector's claims.....	22 44
Examiner of Engineers' claims.....	21 15
Electrician, claims	2 90
Services for the Building Inspectors.....	3,050 00
Services for the Boiler Inspectors.....	1,045 96
Services for the Examiner of Engineers.....	750 00
Services for the Electrician.....	750 00
Services for the fire force	123,653 92
Apparatus and repairs to same.....	3,516 03
Houses and repairs to same	1,938 86
Horses and shoeing.....	2,859 61
Horse feed and bedding.....	5,427 91
Harness and harness shop.....	349 58
Hose and hose shop.....	2,666 20
Fuel and light.....	2,876 31
House supplies and washing.....	463 17
Miscellaneous supplies.....	1,902 22
Office expenses	28 85
Contingent expenses.....	681 42
Reservoirs and repairs	14 00
Fire alarm telegraph.....	2,349 79
	<hr/>
	\$154,431 77

CLAIMS PAID FOR THE LAST HALF OF 1893.

Amount paid for salaries	\$ 131,586 39
Amount paid for office furniture.....	4 36
Amount paid for station furniture... ..	1,498 93
Amount paid for apparatus.....	18,530 47
Amount paid for horses and harness.....	3,358 25
Amount paid for office supplies and stationery.....	92 45
Amount paid for fuel, light and ice	3,139 35
Amount paid for care of horses.....	7,641 68
Amount paid for repairing apparatus.....	2,234 97
Amount paid for repairs to buildings.....	2,074 99
Amount paid for miscellaneous supplies.....	3,392 14
Amount paid for contingent expenses.....	1,032 11
Amount paid for land.....	7,550 00
Amount paid for buildings and reservoirs.....	14,740 48
Disbursements in the last half of the year.....	\$196,876 57

The item of buildings and reservoirs includes the cost of laying water pipe, amounting to \$2,590.94.

The item of apparatus includes the first estimate paid on the fire boat, \$11,760; one hook and ladder truck, \$1,650; one new hose wagon, \$324.

HORSES PURCHASED IN 1893.

Of whom purchased.	No. of horse.	Amount paid.
John Albinger.....	{ 243 }	\$ 405 00
	{ 244 }	
C. A. Hines	{ 245 }	370 00
	{ 246 }	
John Albinger.....	{ 247 }	385 00
	{ 248 }	
G. W. Skinner.....	{ 249 }	350 00
	{ 250 }	
S. Thorman & Co.....	{ 251 }	375 00
	{ 252 }	
S. Thorman & Co.....	253	190 00
Burt Stein.....	254	275 00
A. Schwab	255	175 00
S. Thorman & Co.....	256	180 00
A. McCullum.....	257	150 00
S. Thorman & Co	258	190 00
S. Thorman & Co	{ 259 }	350 00
	{ 260 }	
L. S. Cozzens.....	261	200 00
D. McLean	262	125 00
S. Thorman & Co.....	{ 263 }	350 00
	{ 264 }	
Joseph Scheuer.....	265	175 00
Joseph Scheuer	{ 266 }	350 00
	{ 267 }	
A. A. Likens.....	{ 268 }	300 00
	{ 269 }	
Total	27	\$4,895 00

HORSES SOLD IN 1893.

To whom sold.	No. of horse.	Amount paid.
A. S. Pickering.....	7	\$ 25 00
A. S. Pickering	8	25 00
S. A. Thorman & Co.....	10	30 00
A. Schwab.....	51	40 00
S. A. Thorman & Co.....	73	50 00
A. J. Hrubeck	96	25 00
Joseph Scheuer.....	125	30 00
John Albinger.....	133	40 00
A. A. Likens.....	134	50 00
C. A. Hine	146	70 00
John Albinger.....	157	50 00
S. Thorman & Co	183	10 00
Joseph Scheuer	184	50 00
Joseph Scheuer.....	189	50 00
S. Thorman & Co	204	20 00
John Albinger	231	75 00
S. Thorman & Co... ..	234	60 00
Total	17	\$ 700 00

ALARMS, LOSSES AND INSURANCE, 1893.

1893.	Box Alarms	Still Alarms	Total Alarms	Owner's Loss.	Occupant's Loss.	Owner's Insurance.	Occupant's Insurance.
January	86	19	105	\$ 90,576 75	\$ 13,942 00	\$ 640,551 50	\$ 28,455 00
February	60	17	77	21,689 40	16,908 75	232,575 00	64,300 00
March.....	87	31	118	30,086 99	17,497 24	300,565 00	45,975 00
April.....	72	26	98	11,930 00	2,664 00	58,275 00	226,800 00
May.....	72	19	91	58,300 91	1,516 00	532,500 00	149,200 00
June.....	76	20	96	52,859 10	11,807 00	254,865 00	33,900 00
July.....	97	37	134	22,629 54	9,739 22	127,675 00	33,150 00
August	73	34	107	61,870 40	5,821 20	190,050 00	11,225 00
September.....	80	12	92	20,253 24	68,265 14	143,300 00	147,550 00
October.....	66	21	87	28,256 63	2,500 00	97,700 00	5,850 00
November.....	70	16	86	50,558 65	7,339 00	449,975 00	20,495 00
December.....	65	19	84	70,433 00	7,028 00	145,650 00	28,830 00
Totals.....	894	251	1,175	\$519,444 61	\$165,027 55	3,173,681 50	\$795,730 00
Owners' loss.....			\$519,444 61	Owners' Insurance.....			\$3,173,681 50
Occupants' loss.....			165,027 55	Occupants' Insurance.....			795,730 00
Total losses.....			\$684,472 16	Total.....			\$3,969,411 50

LOSSES AND INSURANCE SINCE 1870.

Year.	No. of Fires.	Losses.	Insurance.
1870.....	213	\$ 378,635 61	\$ 437,060 00
1871.....	199	300,463 77	535,110 00
1872.....	176	309,725 22	263,960 00
1873.....	186	348,410 94	425,450 00
1874.....	285	641,504 37	910,810 00
1875.....	284	137,102 66	545,800 00
1876.....	274	253,569 75	543,350 00
1877.....	320	25,910 00	336,000 00
1878.....	266	207,836 96	612,887 00
1879.....	294	215,357 96	455,582 00
1880.....	337	268,799 58	700,320 00
1881.....	479	365,400 58	856,599 00
1882.....	477	364,646 08	1,543,469 00
1883.....	442	502,449 92	1,383,102 00
1884.....	537	1,522,861 84	1,990,730 00
1885.....	574	429,241 73	1,657,181 00
1886.....	653	106,879 39	1,468,585 00
1887.....	652	277,573 10	1,674,960 00
1888.....	676	541,248 85	2,568,885 00
1889.....	677	373,009 88	2,144,420 00
1890.....	709	308,482 03	3,133,210 00
1891.....	982	1,076,260 01	2,872,925 00
1892.....	1,105	1,482,020 79	5,390,887 09
1893.....	1,174	684,472 16	3,969,411 50

ALARMS AND CAUSES 1893.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Careless with coal oil heater.....											1		1
" Xmas tree.....												1	1
" setting range.....												1	1
" benzine.....									1				1
" window curtain.....					1								1
Careless plumbers.....	2				1								3
Chimney burning.....	4	4	4	2	3	4	3	3	2	1	1	6	37
Cotton ".....							1						1
Oil ".....							1						1
Curtain blowing against gas jet.....								1					1
Defective chimney.....	5	2	5	2	1		2	1	2	2	7	6	35
" flue.....	7	5	3	2	1	7	3	1	1	1	3	1	35
" grate.....	4	2								2			8
" furnace.....	1	1								1	1	1	5
" range.....		1	1										2
" stove.....		1											1
" oil stove.....									1			1	2
" stove pipe.....			2		1							1	4
" gasoline stove.....				1					1				2
" heater pipe.....		1									1		2
" wiring.....			1		1								2
Electric light wires.....	2	5	3	1	1	1							13
Electricity.....					1					1			2
Error by operator.....										1			1
Explosion.....		1	2	1			1			1			6
" chemicals.....					1								1
" gasoline.....				1									1
" " stove.....									1	1			2
" " torch.....						1							1
" fuel oil.....												1	1
False alarm.....	1	1	4	3		3		1	1	3	6	3	26
Friction.....				1			2						3
Fireworks.....						1	14						15

ALARMS AND CAUSES, 1893—Continued.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Smoky chimney.....	1	1	2	3	2					4		4	17
" stove.....	1		1		1			1					4
" furnace.....		1		1									2
Swinging gas bracket.....	1			1			1	2				1	6
Smoking in bed.....	1	1											2
Smoke.....						2	1		1		1		5
Steam.....			1										1
" pipe bursted.....										1			1
" pipes too near wood.....				1									1
Stove exploded.....		1											1
Switch board at Cleveland } Theater.....			1										1
Thawing water pipe.....	4	3	1										8
Traps.....	1								1			1	3
Testing box.....				1						1			2
Tree on fire.....				1									1
Unknown.....	29	16	22	26	16	20	26	20	27	23	20	27	272
Unnecessary.....					1	4	2	3	2	2	5	1	20
Upsetting chemicals.....						1							1
Woodwork too near boiler.....			1									1	2
Wooden smoke stack.....								1					1
Washout.....					2								2
Total.....	106	77	118	98	91	96	134	107	92	77	86	84	1175

CASUALTIES.

- February 4th, 1893.—Two horses burned to death.
- February 15th, 1893.—Norman Bergeron rescued from a burning building by Hook and Ladder Company, No. 2.
- March 2nd, 1893.—Two horses burned to death.
- March 8th, 1893.—Mrs. Lard and her daughter jumped from a window and Minnie Lard, the daughter, was badly burned on her hands.
- March 9th, 1893.—Six horses burned to death.
- March 15th, 1893.—Annie Brainard and Mary Burrows rescued by members of Hook and Ladder Company, No. 2.
- March 20th, 1893.—Mrs. Hague, badly burned on arms and body.
- March 22nd, 1893.—Mrs. Walsh, badly burned and died shortly after.
- March 23rd, 1893.—Mr. Sommer's wife and mother, Mrs. Seth Abbey, Mrs. Hunt and child all smothered to death in the Morgan Block.
- March 27th, 1893.—Two horses burned to death.
- March 28th, 1893.—Doctor Osborn's horse ran away, and striking against one of the department horses, caused the death of the latter.
- March 30th, 1893.—Charles C. Doubelman was burned to death.
- April 1st, 1893.—Twelve horses burned to death.
- April 22nd, 1893.—John Hagel badly burned, and died the next day.
- May 6th, 1893.—Lydia Long, badly burned on hands and face.
- May 8th, 1893.—Mrs. Fred Sommers badly burned, and died on the 12th.
- May 12th, 1893.—Ada Woodford badly burned on her hands.
- May 23rd, 1893.—Mrs. Redmund slightly burned.
- May 28th, 1893.—Mrs. Madden slightly burned.
- June 29th, 1893.—George Donnelly, a Cadet, injured—a roll of paper fell on him.
- July 4th, 1893.—Mrs. Novak had \$500 in her dress pocket—the money was burned.
- July 5th, 1893.—A boy was badly burned.
- July 8th, 1893.—A horse was burned to death.
- July 18th, 1893.—Anthony Yainriski, residence, 119 Hamilton street,
James Hart, residence, 20 Fairfield street,
C. F. Cuyler, residence, 46 Alabama street,
were burned at the Standard Oil fire.
- August 5th, 1893.—Richard Hoffman was burned on his hands.
- August 9th, 1893.—W. Koscinski was burned to death.
- August 11th, 1893.—C. Harbolt, a boy 5 years old, was burned to death.
- August 17th, 1893.—Three horses burned to death.
- September 3rd, 1892.—Mrs. Geo. Byer burned badly on face and hands.
- September 10th, 1893.—Joseph Sutron badly burned.
- September 11th, 1893.—A picture estimated at \$25,000 burned.
- September 23rd, 1893.—J. Arnold jumped from a window, broke the bones in his ankle and injured his spine.
- October 11th, 1893.—James McGrail, a fireman, was injured.
- October 11th, 1893.—Two horses were burned to death.
- November 4th, 1893.—While responding to an alarm for fire, horse No. 191 dropped dead.
- December 17th, 1893.—A. McKinney badly burned.
- December 17th, 1893.—Charles Coyne, a fireman, was injured.

DISBURSEMENTS SINCE 1874.

Year.	Cadets.	Members.	Stations.	Disbursements.
1874	2	116	10	\$161,991 61
1875	54	98	11	170,976 59
1876	.....	143	11	149,894 72
1877	.....	143	11	156,019 12
1878	.....	143	13	159,970 44
1879	.....	142	13	151,792 99
1880	.....	142	13	148,426 60
1881	.....	142	13	148,703 43
1882	.....	151	14	160,881 08
1883	.....	157	14	166,563 55
1884	.....	161	15	198,201 07
1885	.....	171	15	218,611 05
1886	.....	179	16	222,065 21
1887	.....	179	16	217,055 20
1888	23	176	16	234,114 34
1889	42	170	17	265,704 91
1890	25	188	17	265,323 71
1891	32	200	18	276,071 95
1892	55	194	20	301,555 77
1893	63	224	20	369,711 22

NUMBER OF MEMBERS ON THE FIRE FORCE.

Companies.	Captains.	Lieutenants.	Engineers.	Assistant Engineers.	Firemen.	Cadets.	Total.
Engine Co. No. 1.....	1	1	1	1	3	4	11
“ 2.....	1	2	1	1	6	2	13
“ 3.....	1	1	1	1	5	1	10
“ 4.....	1	1	1	1	5	1	10
“ 5.....	1	1	1	1	4	2	10
“ 6.....	1	1	1	1	6	2	12
“ 7.....	1	1	1	1	3	4	11
“ 8.....	1	1	1	1	4	2	10
“ 9.....	1	1	1	1	3	3	10
“ 10.....	1	1	1		4	3	10
“ 11.....	1	1	1	1	3	3	10
“ 12.....	1	1	1	1	4	2	10
“ 13.....	1	1	1	1	4	2	10
“ 14.....	1	1	1	1	5	3	12
“ 15.....	1	1	1	1	2	4	10
“ 16.....	1	1	1	1	4	2	10
“ 17.....	1	1	1	1	4	2	10
“ 18.....	1	1	1	1	4	3	11
Hose Co. No. 1.....		2			2	1	5
Hook and Ladder Co. No. 1.....	1	1			8	2	12
“ “ 2.....	1	2			10	2	15
“ “ 3.....	1	1			6	2	10
“ “ 4.....	1	1			5	3	10
“ “ 5.....	1	1			5	3	10
“ “ 6.....	1	1			6	2	10
“ “ 8.....		1			2	3	6
Fire alarm telegraph.....							7
Chief and Assistants.....							6
Secretary.....							1
Supt. of Machinery.....							1
Store keeper.....							1
Employes, Medical Officer, Veterinary and Painter.....							3
Total.....	24	29	18	17	117	63	287

OFFICERS AND MEMBERS AND SALARIES.

	No. of Men.	Salaries per annum.
Chief J. W. Dickinson.....	1	\$2,500 00
Assistant Chief H. H. Rebbeck.....	1	2,100 00
Battalion Chief Joseph Speddy.....	1	1,900 00
" " Geo. A. Wallace.....	1	1,900 00
" " John Andrew.....	1	1,775 00
" " Charles Dougherty.....	1	1,700 00
Secretary, A. J. Spencer.....	1	1,600 00
Detailed as Ass't Secretary, James Quarrie.....	1	1,030 00
Supt. of Machinery, C. D. Murphy.....	1	1,300 00
Chief Operator, Joseph Rothgery.....	1	1,200 00
Storekeeper, Perry H. Auxer.....	1	1,020 00
Medical Officer, D. L. Travis.....	1	900 00
Veterinary, James Bennett.....	1	600 00
Captains, each.....	24	1,150 00
Lieutenants, each.....	29	1,030 00
Engineers, each.....	19	1,140 00
Assistant Engineers, each.....	17	1,020 00
Firemen, each.....	117	960 00
Cadets receive from \$400 to \$300.....	63	.....
Operators and Linemen.....	5	1,030 00
Painter, G. W. Stephens.....	1	720 00
Total number of men on the Fire force.....	287	

FIREMEN'S PENSION FUND.

January 1st, 1893, cash balance.....	\$6,342 76	
Collection from County Treasurer.....	32,062 75	
Interest on bonds	6,535 00	
Assessments.....	1,270 76	
Donations.....	125 00	
Fines.....	30 00	
Witness fees.....	21 00	
	\$46,387 27	
Amount in bonds	130,000 00	
Total resources.....		\$176,387 27
DISBURSEMENTS.		
Paid to pensioners	\$12,556 62	
" for bonds	30,000 00	
" Prem. on bonds	2,217 25	
" Interest on bonds	388 34	
Total disbursements.....		\$45,172 21
Amount in bonds		\$130,000 00
January 1st, 1894, cash balance.....		1,215 06

There are eighteen retired pensioners.

There are sixteen widows on the list of pensioners.

There are twenty-seven children on the list.

The monthly pay-roll, \$1,296.63.

Report of D. L. Travis, Surgeon Cleveland Fire
Department.

CLEVELAND, O., March 7, 1894.

James W. Dickinson, Chief:

SIR:—I have the honor to submit to you a report of the
Medical Services for the year ending December 31, 1893.

TABLE SHOWING DISEASES, INJURIES AND MEDICAL SERVICES.

	Diseases.			Injuries.			Aggregate.			Medical Services.				
	No. Cases.	Time Lost.		No. Cases.	Time Lost.		No. Cases.	Time Lost.		No. Visits.	No. Con-sultations.			
		Days.	Hours.		Min.	Days.		Hours.	Min.			Days.	Hours.	Min.
During the year ending December 31, 1883.	97	1-496	4	8	29	7-48	6	30	126	2-24½	10	38	608	155

No. of candidates examined, 361. Number of candidates rejected, 95.

TABLE OF DISEASES AND INJURIES IN THE ORDER OF THEIR FREQUENCY:

	Diseases.		Injuries.	
	Influenza.....	12 cases.	Rheumatism.....	3 cases.
	Bronchitis.....	11 "	Functional dyspepsia.....	3 "
	Diarrhea.....	9 "	Unknown.....	25 "
	Neuralgia.....	7 "	Consumption.....	1 "
	Lumbago.....	7 "	Kidney disease.....	1 "
	Malarial fever.....	6 "	Orbitis.....	1 "
	Intestinal indigestion.....	5 "	Spinal disease.....	1 "
	Pneumonia.....	5 "	Sclerosis of liver.....	1 "
	La grippe.....	4 "	Pharyngitis.....	1 "
	Spasmodic colic.....	4 "	Migraine.....	1 "
	Boils.....	4 "	Typhoid fever.....	1 "
	Tonillitis.....	3 "	Erythema.....	1 "
	Hemorrhoids.....	3 "		
			Contusions.....	11 cases.
			Fractures.....	4 "
			Sprained ankles.....	3 "
			Lacerations.....	2 "
			Burns.....	2 "
			Inclosed wounds.....	1 "
			Punctured Wounds.....	1 "
			(tangrene.....	1 "
			Sprained back.....	1 "
			Dislocation of shoulder.....	1 "
			Frozen feet.....	1 "
			Abrasion.....	1 "

During the year ending December 31, 1883.

There were two deaths during the year, one from consumption and one from liver disease. Charles Fisher, consumption, Geo. Messer, liver disease.

In conclusion, I desire to acknowledge the many courtesies which I have received at your hands.

Respectfully submitted,

D. L. TRAVIS, M. D., Medical Officer.

Report of Veterinary Surgeon.

H. H. Hyman, Esq., Director of Fire Service:

SIR—I respectfully submit my report for the year ending
December 31, 1893.

There were horses bought.....	28
“ “ sold.....	20
“ “ died	3
There are horses in department.....	115
“ “ service.....	105
Leaving extra horses.....	10

Visits made to sick horses each month:

January	50
February.....	60
March.....	58
April.....	63
May.....	69
June	40
July.....	50
August.....	58
September.....	70
October.....	82
November	62
December.....	50

712

Respectfully submitted and forwarded to

J. W. DICKINSON, *Chief.*

JAMES BENNETT, *Veterinary Surgeon.*

REPORT OF THE
Chief Operator Fire Alarm Telegraph.

DEPARTMENT OF FIRE, }
OFFICE OF THE ALARM TELEGRAPH, }
CLEVELAND, O., JANUARY 1st, 1894. }

Hon. H. H. Hyman, Director of Fire Service:

DEAR SIR:—I have the honor to submit to you herewith my annual report for the year ending December 31st, 1893.

During the past year the Fire Alarm System has worked satisfactorily. Two (2) new box circuits were added to the system.

All our wires (a) on St. Clair street (from Erie street east to city limits); (b) on Lorain street (from engine house No. 6 west to Gordon avenue); (c) on Woodland avenue (from Willson avenue east to Engine house No. 16); (d) on Cedar avenue (from Bolton avenue east to Fairmount street) we rebuilt with copper wire. We used sixty-eight (68) miles of copper wire for doing above work.

Twenty-one (21) alarm boxes were added during the past year, and six (6) old ones replaced by new ones.

As recommended in my last annual report, I have started the work of changing the telephone lines from a ground to a metallic circuit, and will complete as soon as the wires down town are placed underground, which, I hope, will be accomplished this year. As soon as the aforementioned work is

completed, a metallic circuit telephone switchboard will be required, and its purchase is recommended.

Concerning the construction of new lines, and rebuilding of old ones for the coming year, I shall hand in a special report later on.

In conclusion I beg to extend my hearty thanks to the Honorable Director of Fire Service, and to the Chief for their uniform kindness and helpful assistance with which I was favored during the past year.

Very respectfully,

JOSEPH ROTHGERY,

Chief Operator.

N. B.—See annexed tables for further information.

SUMMARY OF 1893.

Trouble on lines removed.....	716
Keys issued to citizens.....	396
Boxes examined.....	337
Boxes cleaned.....	168
Boxes added to system.....	21
Boxes replaced by new.....	6
Miles of copper wire strung.....	68
Miles of iron wire strung.....	4½
Miles of iron wire taken down.....	28½
Poles set for new circuits.....	354
Miles of copper line.....	169¾
Miles of iron line.....	123

UNDERGROUND.

- 1.10 wire cable, 350 feet long, under river at Ohio street, bad.
 1.14 wire cable, 400 feet long, under river at Ohio street, good.
 1.14 wire cable, 400 feet long, under river at Superior street, good.
 2,738 feet conduit on Doan street and Bolton avenue, containing 7,384 feet of Okonite wire.

ALARM BOXES.

Gamewell spring.....	51
Gamewell sector weight.....	63
Municipal sector weight.....	26
Allan.....	86
Interstate.....	41
Utica.....	2
Pearce & Jones.....	1
Richmond.....	1
Total	271

ALARMS.

1893.	Box Alarms.			Still Alarms.			Grand Total.	Working Fires.	Calls for Assistance.	False Alarms.
	A. M.	P. M.	Total	A. M.	P. M.	Total				
January	40	46	86	10	9	19	105	65	7	2
February	25	36	61	7	9	16	77	35	2	1
March	33	54	87	6	24	30	117	65	6	3
April	30	42	72	9	18	27	99	52	5	1
May	29	42	71	5	15	20	91	49	2	0
June.....	27	50	77	6	14	20	97	54	5	3
July.....	48	49	97	12	25	37	134	72	2	0
August	26	47	73	16	18	34	107	56	7	1
September.....	33	48	81	2	10	12	93	54	3	1
October.....	33	33	66	10	11	21	87	57	2	4
November	35	35	70	10	6	16	86	52	5	6
December	29	36	65	6	13	19	82	46	2	3
Total	388	518	906	99	172	271	1,177	657	48	25

Alarms turned in by

Citizen keys	450
Box keys	69
Telephone	213
Police keys	81
Police stations.....	8
Firemen's keys	7
Engine houses	59
Auxiliar.....	19

BOX ALARMS.

1893.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday	9	8	10	13	14	8	15	3	13	7	12	10	122
Monday	16	8	15	11	10	9	12	7	10	12	9	11	130
Tuesday	16	9	8	6	13	5	26	13	9	10	9	9	133
Wednesday	16	12	14	11	8	12	19	13	11	9	10	10	145
Thursday	8	9	11	17	10	20	9	19	11	5	11	9	139
Friday	9	11	14	4	6	14	7	12	11	15	12	8	123
Saturday	12	4	15	10	10	9	9	6	16	8	7	8	114
Total	86	67	87	72	71	77	97	73	81	66	70	65	906

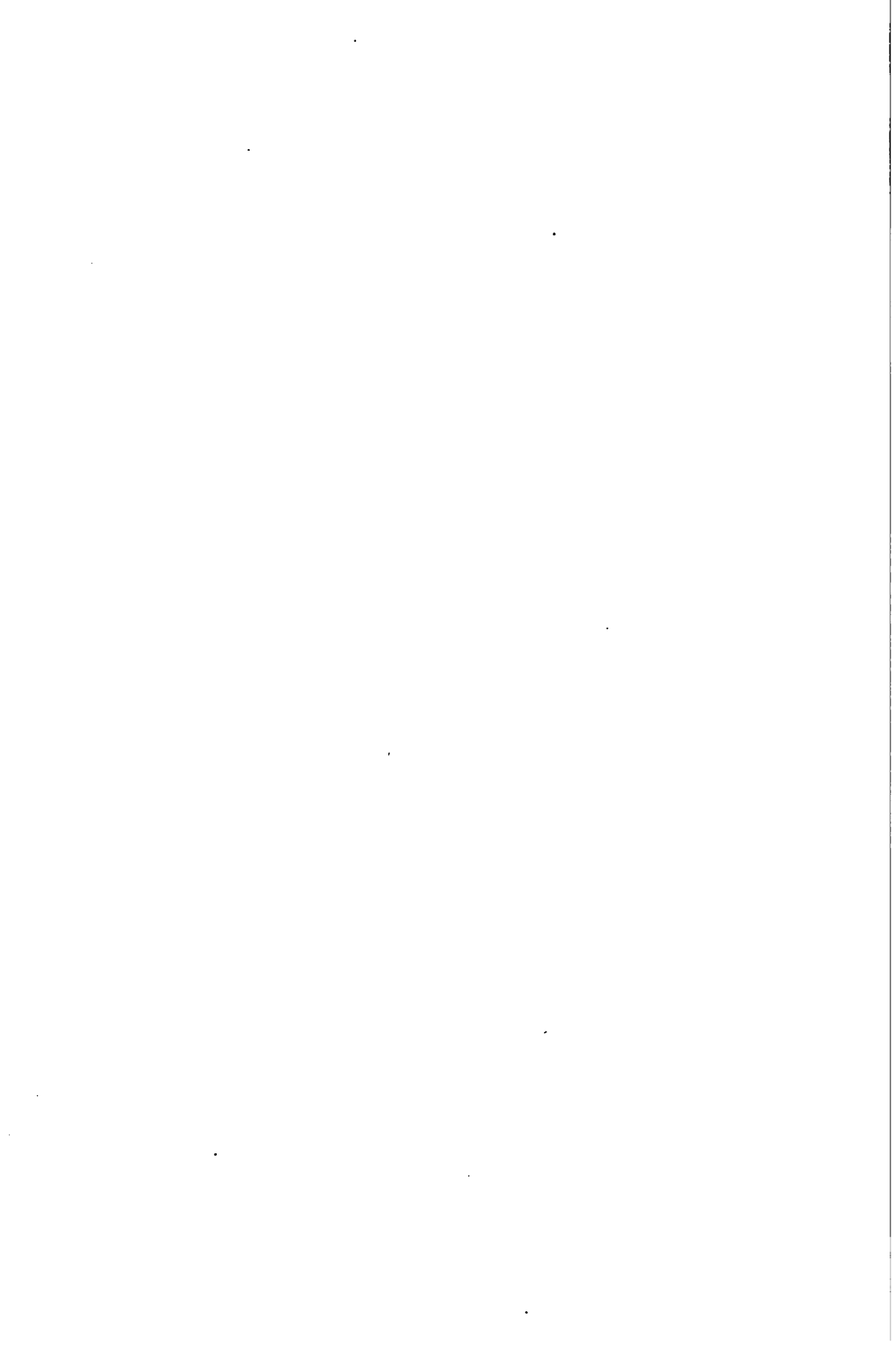
STILL ALARMS.

Sunday	1	3	4	7	2	.....	3	4	3	6	2	4	39
Monday	2	1	2	3	4	2	4	4	4	1	3	2	32
Tuesday	4	3	4	4	4	1	10	4	3	4	2	2	45
Wednesday	3	2	9	1	5	5	8	6	1	2	.....	5	47
Thursday	5	3	5	6	2	4	4	6	.....	2	3	1	41
Friday	2	2	4	3	1	6	3	6	1	4	3	3	38
Saturday	2	2	2	3	2	2	5	4	.....	2	3	2	29
Total	19	16	30	27	20	20	37	34	12	21	16	19	271
Grand total.....													1,177

TABLE SHOWING THE NUMBER OF CALLS FROM EACH BOX.

Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.
2	6	41	9	84	4	141	3	183	6	251	10	346	6	429	2
3	1	42	3	85	5	142	7	185	1	252	1	347	8	431	.....
4	4	43	4	86	1	143	2	186	2	253	1	351	2	432	5
5	2	45	4	87	2	144	3	212	8	266	6	352	4	433	1
6	1	46	2	89	1	145	3	213	2	257	4	353	1	434	5
7	3	47	5	91	3	146	2	214	1	258	2	354	4	435	2
9	1	48	2	92	1	147	2	215	4	259	2	355	8	436	2
10	2	51	3	93	1	148	3	216	2	261	6	357	4	437	3
12	1	52	2	94	2	149	1	217	8	262	2	358	1	514	1
13	5	53	5	95	3	151	1	218	5	263	7	361	5	524	2
14	3	54	6	96	2	152	2	219	6	264	7	362	3	525	7
15	2	56	4	97	5	153	3	221	5	265	5	363	3	531	3
16	1	58	5	98	1	154	3	223	1	312	1	364	1	541	4
17	2	59	1	121	2	155	1	226	5	313	3	371	3	542	2
18	3	61	2	122	4	156	1	227	2	314	1	381	2	.....	.....
19	8	62	4	123	3	161	4	228	4	315	4	384	2	.....	.....
21	6	63	3	124	1	162	2	231	2	316	4	386	8	.....	.....
23	13	64	3	125	4	163	2	234	3	317	1	387	3	.....	.....
24	19	65	4	126	3	164	13	235	4	318	2	388	3	.....	.....
25	20	67	2	127	6	165	8	236	4	319	9	412	8	.....	.....
26	6	68	4	128	1	166	4	237	5	321	5	414	4	.....	.....
27	8	69	3	129	1	167	2	238	1	322	4	415	6	.....	.....
28	21	72	3	131	8	171	14	241	7	323	6	417	6	.....	.....
29	3	78	18	132	1	172	7	242	2	324	6	418	3	.....	.....
31	4	74	20	133	1	173	6	243	7	327	7	419	6	.....	.....
32	31	75	3	134	2	174	6	244	1	326	1	421	3	.....	.....
34	21	77	1	135	2	175	4	245	5	327	4	423	11	.....	.....
35	5	78	2	136	3	176	2	246	9	351	6	423	1	.....	.....
36	7	79	26	137	4	177	4	247	1	342	6	424	1	.....	.....
37	9	81	4	138	3	.....	.....	248	3	343	4	426	2	.....	.....
38	14	82	4	139	5	.....	.....	249	4	344	2	427	10	.....	.....
39	3	83	4	.....	.....	.....	.....	.....	.....	345	2	428	3	.....	.....

Inspector of Boilers.



Report of Inspector of Boilers.

DEPARTMENT OF FIRE, }
OFFICE OF INSPECTOR OF BOILERS, }
JANUARY 1ST, 1894. }

Hon. H. H. Hyman, Director of Fire Service:

DEAR SIR:—I respectfully submit to you my first annual report for the year ending December 31st, 1893.

Number of boilers inspected.....	584.
“ “ certificates issued up to date	574.
“ “ “ paid for.....	507.
“ “ “ issued to city boilers, no fee	54.
“ “ boilers paid for but not yet inspected..	10.
“ “ “ inspected but not paid for	23.
Repairs ordered—number of cases.....	163.
507 certificates at \$5.00	\$2,535
Paid A. J. Spencer, Secretary, for the year 1893..	\$2,585

The most disagreeable part of my task is collecting the five dollars fee for inspection. Boiler owners have an idea it is too much. During the four months I have been in office I have found broken braces, spaces in heads 15x17 inches square without any braces, pitted flues, pitted boiler cylinders; sheets mud-burned, caused by corrosion; smoke arches burned through on the bottom, steam gauges from 10 to 15 lbs. light, safety valves corroded, and some broken and fastened by wire.

If the above defects were detected in time it would save the owners from five to twenty years' inspection fees. The keeping of boilers clean and free from corrosion as recommended by the Inspector, will save the owners five dollars every thirty days in fuel alone.

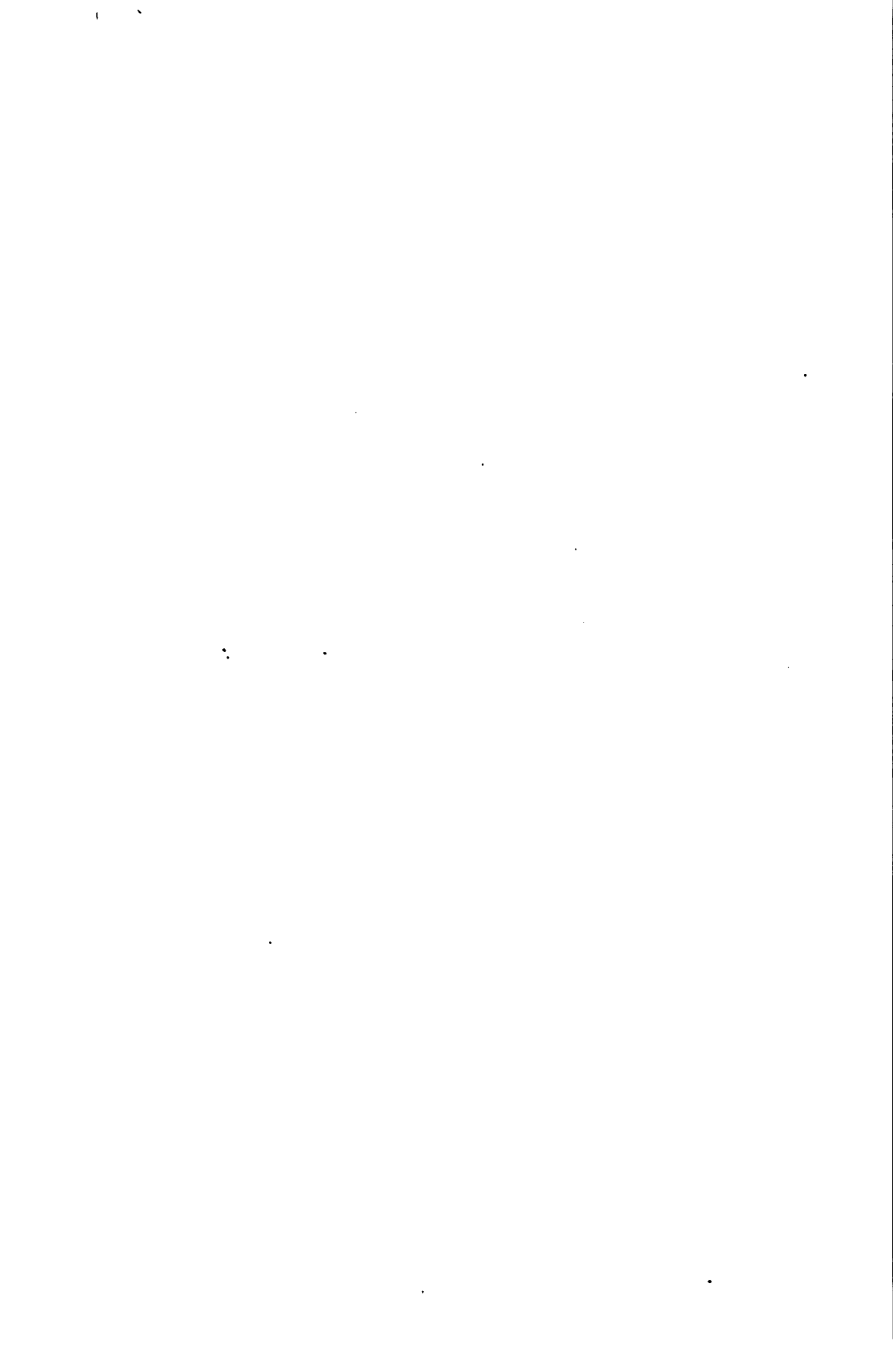
In conclusion, I desire to return you my sincere thanks for kindness and many courtesies received at your hands.

Very respectfully,

JAMES F. WALSH,

Boiler Inspector.

Inspector of Buildings.



Report of the Inspector of Buildings.

DEPARTMENT OF FIRE, }
OFFICE OF THE INSPECTOR OF BUILDINGS, }
JANUARY 1, 1894. }

Hon. Herbert H. Hyman, Director of Fire Service :

DEAR SIR :—I have the honor herewith to submit the Sixth Annual Report of the business transacted by this department for the year ending December 31, 1893.

The estimated cost of new structures built during the past year is \$3,109,724, and for additions, alterations and repairs of old buildings, \$595,363, or a total of \$3,706,087, or \$1,530,462 less than during the year 1891.

The fees charged for permits for 1893 amounted to \$5,816.80, and the expenditures for salaries, stationery, printing, etc., \$—

The decrease in the amount of building in the year 1893 can be attributed to the general depression that has prevailed in all branches of business, and instead of new structures, there has been an unusual large amount of remodeling and repairing of old buildings.

The City has built a larger number of public buildings, such as school-houses, fire-stations, police-stations, etc., the cost of which is included in the total for new structures, but for which no fees were charged.

We have endeavored to place the valuation of buildings for which permits have been granted as near as possible, but cannot always do so as many owners try to prevent it.

The force employed in this department consists of the Inspector of Buildings, Assistant Inspector and two Deputy Inspectors.

The Assistant Inspector and one deputy are employed all the time inspecting buildings in the course of constructing throughout the city, as well as unsafe buildings, defective chim-

neys, heating apparatus, and in locating fire escapes. One deputy is employed in the office issuing permits and keeping the records of the department.

I consider it quite necessary to keep a strict watch upon buildings built for sale and those built by owners who build without definite plans and specifications or contracts; most structures of this class are of frame and in thickly-settled neighborhoods, where one poorly-constructed chimney, hearth, hot-air or steam pipe could cause great damage by fire, wind being favorable or fire apparatus removed to some distant fire.

512 permits have been issued for steam and hot air heaters, all of which have been inspected.

There have been served on the owners or agents notices to place fire escapes on 86 buildings, 43 of which have been equipped and several others will be in a short time.

As all buildings three or more stories in height should be surveyed as regards their stairways, exits, etc., and if found dangerous to locate fire escapes on said building; then to ascertain the name of owner and serve him or his agent personally with a written notice to erect fire escapes, and finally to inspect the fire escape as to its construction and durability before giving a certificate that the law has been complied with, it will be apparent to all that considerable time is required in getting a building properly equipped with fire escapes.

The design of fire escapes is the same as has been used by this department for several years, with one exception. We have limited the rise of treads to eight inches, and the treads themselves to eight inches in width. This was done because we found several manufacturers who were making the stairs so steep that it was impossible for women and children to go down them without a great risk of falling. They are practically iron stairways, securely attached to the outer wall of the building, and provided with treads, risers, handrails, etc., and so located as to be easy of access, without anyone being obliged to pass through

halls, which, when filled with smoke, cause loss of life by suffocation. The fire escape is no patented device, and can be built by anyone who can work in iron. So the owners of the buildings are at liberty to have their fire escapes built wherever and by anyone they wish.

Numerous examinations of unsafe buildings and walls of those destroyed by fire have been made, and orders and directions have been given by the department to have them made safe or taken down. There was one case where this department had to take down a wall as it was in such a dangerous condition that the public safety made it necessary.

The department has endeavored to keep informed as to the general condition of buildings throughout the city, and has devoted as much attention as to their safety as it was possible to do without impairing the efficiency of the service in the inspection of new buildings in course of construction. And when consideration is given to the fact that two assistant inspectors are expected to be cognizant of all changes and to personally inspect all new buildings you will readily see that with their best efforts the result is far from satisfactory. With the annexation of Brooklyn and West Cleveland villages, their labors will be increased.

I earnestly recommend that the present force be increased in the near future to four deputy inspectors instead of two as at present; and that the department be supplied with at least two horses and buggies, as the districts are large and the inspectors necessarily lose a good deal of time going from one place to another.

In closing, permit me to thank you for the kind treatment I have received during the short time I have been in the department. I also wish to thank the Chief and Assistant Chief of the Fire Department for their help, and the assistant inspectors for the faithful discharge of their duties.

Yours very respectfully,

JNO. W. DOLMAN,

Inspector of Buildings.

The accompanying tables give in detail the business during the past year.

The following is a condensed summary thereof.

Number of brick and stone structures.....	101
“ “ wood and frame “	1940
“ “ additions and alterations.....	1347
“ “ buildings moved.....	48
“ “ heating apparatus.....	512
“ “ fire escapes ordered.....	86
Total amount of fees charged.....	\$5,816.80

SUMMARY BY MONTHS, 1893.

Months.	BUILDINGS.										Totals.		Total Number and Fees.	
	Heating Apparatus.		House Moving.		Brick and Stone.		Wood and Frame.		Additions, etc.		No.	Est. Cost.	No.	Fees.
	No.	Fees.	No.	Fees.	No.	Est. Cost.	No.	Est. Cost.	No.	Est. Cost.				
January.....	30	\$30 00	.....	.....	1	\$ 2,000	47	\$ 54,225	49	\$19,380	97	\$ 75,565	127	\$139 10
February.....	15	15 00	1	\$ 2 00	6	52,115	104	96,325	83	135,655	192	277,295	208	387 25
March.....	30	30 00	10	20 00	13	51,125	296	367,855	235	93,271	544	512,351	584	867 70
April.....	47	47 00	5	10 00	11	42,000	328	400,330	200	86,420	539	528,750	591	876 95
May.....	74	74 00	7	14 00	17	274,250	279	359,005	168	72,495	464	705,760	545	970 95
June.....	70	70 00	5	10 00	14	185,930	217	253,895	137	43,925	368	485,740	443	776 75
July.....	65	65 00	4	8 00	8	107,600	182	165,590	110	55,950	300	329,140	369	520 90
August.....	47	47 00	1	2 00	8	32,100	126	100,470	93	21,025	229	153,595	277	309 20
September.....	39	39 00	5	10 00	2	129,000	102	90,052	101	26,395	205	245,447	249	287 60
October.....	37	37 00	4	8 00	12	39,550	131	128,307	82	20,025	225	185,882	266	349 85
November.....	39	39 00	5	10 00	8	36,450	86	98,485	59	15,405	133	151,340	197	246 20
December.....	19	19 00	1	2 00	2	4,000	42	44,965	28	6,267	72	55,232	92	144 35
Total.....	512	\$512 00	48	\$68 00	101	\$656,120	1940	\$2,153,604	1347	\$596,363	3388	\$3,706,087	3948	\$5816 80

STATEMENT

Showing the whole number and estimated value of all buildings in the city, Jan. 1, 1893,
with the number and estimated cost of structures erected
during the year 1893.

	Dwellings.		Barns.		Stores.		Mills and Shops.		Miscellaneous.		Totals.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Total Jan. 1st, 1893.....	43,924	\$19,888,519	6,921	\$2,041,841	3,451	\$18,538,844	1,822	\$6,187,712	1,286	\$15,969,628	57,104	\$91,616,544
New structures.....	1,435	2,203,625	265	68,217	182	333,485	62	179,116	97	325,382	2,011	3,100,724
Additions to old structures.....	896	283,998	86	8,325	235	146,750	85	94,806	45	52,485	1,347	686,363
Total Jan. 1st, 1894.....	46,255	\$21,386,142	7,272	\$2,118,383	3,868	\$19,019,079	1,669	\$6,461,632	1,428	\$16,347,385	60,492	\$95,322,631

RECAPITULATION BY WARDS OF PERMITS FOR BUILDINGS, 1893.

Ward.	NEW STRUCTURES.						Additions, Alterations, Repairs, etc., all kinds.				Grand Total.		
	Brick and Stone.			Wood and Frame.			Total.				New Structures, Additions, Alterations, etc.		
	Estimated Cost.		No.	Estimated Cost.		No.	Estimated Cost.		No.	Estimated Cost.		No.	Estimated Cost.
	No.			No.			No.			No.			
1	12	\$ 96,925	4	\$ 825	16	\$ 99,750	33	\$ 27,659	49	\$ 127,409			
2	9	284,500	2	42,200	11	328,700	31	56,275	42	382,975			
3	7	34,750	2	3,375	9	38,125	36	35,280	45	73,405			
4	4	13,000	1	25	5	13,025	40	49,750	45	62,775			
5	2	13,500	7	6,045	9	19,545	13	3,225	22	22,770			
6	.....	.....	25	30,515	25	30,515	19	8,315	44	33,830	
7	2	8,500	17	21,380	19	29,880	31	6,620	50	36,710			
8	1	5,000	8	7,625	9	12,625	15	3,780	24	16,415			
9	5	45,500	44	42,950	49	88,350	42	28,780	91	117,130			
10	6	65,500	.....	.....	6	65,500	23	7,560	29	33,060	
11	4	9,500	.....	.....	4	9,500	24	28,540	28	36,040	
12	3	8,100	15	11,200	18	19,300	24	7,430	42	26,730			
13	1	10,000	23	31,825	24	41,825	12	1,840	36	43,665			
14	.....	.....	10	21,575	10	21,575	12	3,310	22	24,885	
15	2	11,500	10	20,040	26	31,540	34	5,370	60	36,910			

RECAPITULATION BY WARDS OF PERMITS FOR BUILDINGS, 1893.—Continued.

Ward.	NEW STRUCTURES.						Additions, Alterations, Repairs, etc., all kinds.		Grand Total.	
	Brick and Stone.		Wood and Frame.		Total.		Brick, Stone, Frame and Wood.		New Structures, Additions, Alterations, etc.	
	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.
		\$		\$		\$		\$		\$
16	.....	.....	11	2,530	11	2,530	36	9,255	47	11,785
17	1.	250	45	30,425	46	30,675	35	15,457	81	46,132
18	1	2,400	188	255,815	189	258,215	57	18,760	246	276,975
19	8	42,100	419	594,116	442	636,216	47	12,325	469	648,541
20	6	100,000	59	78,810	65	178,810	28	34,955	93	213,665
21	.....	.....	209	327,685	209	327,685	45	48,675	254	376,360
22	2	18,095	68	57,335	70	75,430	46	14,970	116	90,400
23	7	14,475	92	75,030	99	89,505	39	14,345	138	103,850
24	1	2,000	43	30,047	44	32,047	70	18,270	114	50,317
25	5	11,250	111	76,305	116	87,555	58	13,950	174	101,505
26	.....	.....	54	34,780	54	34,780	12	6,207	66	40,987
27	.....	.....	73	52,780	73	52,720	28	6,925	101	59,645
28	4	19,000	11	1,315	15	20,315	26	9,920	41	30,235
29	2	2,500	1	1,800	3	4,300	8	2,325	11	6,625
30	.....	.....	14	12,000	14	12,000	24	6,485	38	18,485

RECAPITULATION BY WARDS OF PERMITS FOR BUILDINGS, 1893.—Continued.

Ward.	NEW STRUCTURES.						Additions, Alterations, Repairs, etc., all kinds.		Grand Total.	
	Brick and Stone.		Wood and Frame.		Total.		Brick, Stone, Frame and Wood.		New Structures, Additions, Alterations, etc.	
	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.
		\$		\$		\$		\$		\$
31			9	11,145	9	11,145	19	2,655	28	13,700
32	1	7,200	22	17,220	23	24,420	28	6,380	46	30,810
33	2	30,000	10	13,760	12	43,760	31	6,280	43	50,020
34	1	1,800	8	8,600	9	10,400	26	11,795	35	22,195
35			13	10,015	13	10,015	35	5,950	48	15,965
36	1	250	35	30,019	36	30,269	45	10,867	81	41,136
37	2	75,075	24	37,620	26	112,695	42	14,413	68	127,108
38			58	40,685	58	40,685	56	15,145	114	55,830
39	1	600	66	42,212	67	42,812	78	14,380	145	57,202
40	3	20,850	115	72,115	118	92,965	44	6,940	162	99,905
Total	101	965,120	1940	2,153,604	2041	3,109,724	1347	586,363	3388	3,706,087

STATEMENT

Showing the number of permits issued, cost of structures, etc., for each year from the organization of the office of inspector.

Year.	NUMBER PERMITS ISSUED.			Total estimated cost.	Fees.
	NEW STRUCTURES.		Additions, etc.		
	Brick.	Frame.			
*1888.	76	1,101	441	\$ 3,031,988 00	4,834 59
1889.	115	2,486	1,302	4,401,854 00	9,664 75
1890.	117	2,729	1,444	5,107,107 00	9,436 90
1891.	144	2,757	1,561	5,600,983 00	8,415 63
1892.	116	2,720	1,644	5,236,549 00	8,119 55
1893.	101	1,940	1,347	3,706,087 00	5,816 80
Total, Jan. 1, '94	669	13,733	7,736	\$ 27,084,568 00	\$ 46,338 22

* For seven months from June 1, 1888, the date of organization of office.

Examiner of Engineers.



Report of Examiner of Engineers.

DEPARTMENT OF FIRE,
OFFICE OF THE EXAMINER OF ENGINEERS. }
CLEVELAND, OHIO, January 1, 1894.

Hon. H. H. Hyman, Director of Fire Service :

DEAR SIR:—I have the honor to herewith submit my first annual report of the business of the office of Examiner of Engineers for the year ending December 31, 1893.

Applicants examined.....	381
Licenses granted	159
Applicants rejected.....	222
Licenses re-issued	1,380
Complaints investigated.....	60
Licenses revoked.....	154
Visits of inspection.....	264
Running without license.....	55

I have experienced some difficulty and inconvenience in enforcing the law, which has been largely overcome by your approval, for the benefit of the service, in the enforcement of the amendment to section 388 of the revised ordinance passed by the City Council during the month of November, 1892, and is as follows: "That the Examiner of Engineers may adopt such rules and regulations as he may deem proper, not inconsistent with this ordinance and the general law by and with the approval of the Director of Fire Service. Said rules are as follows:

1st. That no person shall be eligible to an examination who does not come highly recommended as a sober, industrious person, and that he be a citizen of the United States, or having declared his intention of becoming the same.

2d. That all applications for a re-issue of license shall be subject to examination, such as the examiner may determine, as a protection to life and a prevention to the destruction of property.

3d. That the office hours shall be from 9 a. m. to 12 m., so as to give the examiner ample time to make an engine room examination and report the exact conditions in writing to the employer of the engineer.

With your permission, I desire to say while making the above examinations I have come in contact with some very bad conditions, such as safety valves being overweighted; being tied down with ropes and wire; being corroded to their seat; and in four cases where the outlet of the safety valve was plugged up, and in cases of engines where they were taking steam on one end of the cylinder only, due to the fact that the valve was not properly set; and in another place where the valve was cracked in the center, allowing a large percentage of the steam to flow through the exhaust cavity into the atmosphere. In another case where they were using steam the whole of the stroke, where cutting off at quarter stroke would do the work. There is no economy in this state of affairs, and in such cases I have revoked the licenses of the engineers in charge.

I herein take the liberty to recommend that an indicator be provided for the examiner for use in such examinations.

The expressions I make of my experience as examiner of engineers, and the recommendations advanced will, I sincerely hope, commend themselves to your favorable consideration, intended, as they are, to improve and maintain economy and that of safety and security to life and property, for which the office of Examiner of Engineers was created.

In conclusion, I desire to return my thanks to you for the advice and kind treatment accorded me in the performance of my duties, and also to my associates in the office, as our business transactions have been most pleasant.

Respectfully submitted,

ED. P. BATES,

Examiner of Engineers.

Report of City Electrician.

Hon. H. H. Hyman, Director of Fire Service, City:

DEAR SIR:—I have the honor to submit to you the following report for the year ending December 31st, 1893.

The work done is as follows :

Incandescent light installations inspected.....	291
Arc " " "	359
Electric Motor " " "	100
Number of days inspecting aerial conductors.....	39
" " " " underground conductors	47
Permits granted for telegraph conductors.....	56
" " " railway "	17
" " " stationary motor conductors..	22
" " " electric light "	115
" " " telephone "	473

There has also been a considerable amount of general office work done. To you, as the originator of the underground wire ordinance, it gives me pleasure to present the following :

The additions to the underground systems during the past year have been as follows :

The Cleveland General Electric Company have placed underground 93,768 feet of copper mains and feeders, varying in diameter from about 45-100 of an inch to one inch ; these are placed in 31,256 feet of iron pipe ; they have also placed 19 street junction boxes, and the necessary subsidiary connections to customers.

The Standard Oil Company have placed underground all their telegraph and telephone wires running from their office building on Euclid avenue through Sheriff street Market Place and Broadway, beyond the limits of the underground district

prescribed by ordinance; the total length of these conductors is 135,040 feet, and they are placed in 4,220 feet of iron pipe ducts.

The Postal Telegraph Company have added 71,160 feet of conductors to their trunk lines, all of which they have placed underground.

The Cleveland Telephone Company have placed 2,803,680 feet of conductors underground in 39,766 feet of ducts. This Company is not only complying with the underground ordinance, but are extending their underground service beyond the limits prescribed by law.

There have been ten fires within the past year which were caused by electrical appliances and conductors, the total loss of which was \$1,067.75; these, however, were all within the first five months of the year, and before the underground electric light conductors were put in service, or much of the aerial and interior wiring reconstructed. It is very gratifying to the writer to be able to state that for the past seven and one-half months there have been no fires within the city which were caused by electrical appliances; this would seem to demonstrate that under proper supervision there is practically no danger from fire from the millions of dollars' worth of electrical appliances and conductors installed within the city.

One life has been lost within the past year from electricity—that of John Peters of 851 Lorain street. On June 10th, he received a fatal shock from contact with a high tension motor which had been installed in direct violation of the city ordinance, and without notifying the City Electrician for inspection. In connection with this matter I desire to call your attention to the need of a state law giving the city authority to regulate the use of electrical conductor and appliances, and license electrical workers, that in the future accidents of this kind may be avoided.

There has been considerable trouble in a number of cities from the electrolytic action of railway currents on pipes underground and on the armor of underground cables; in Cleveland

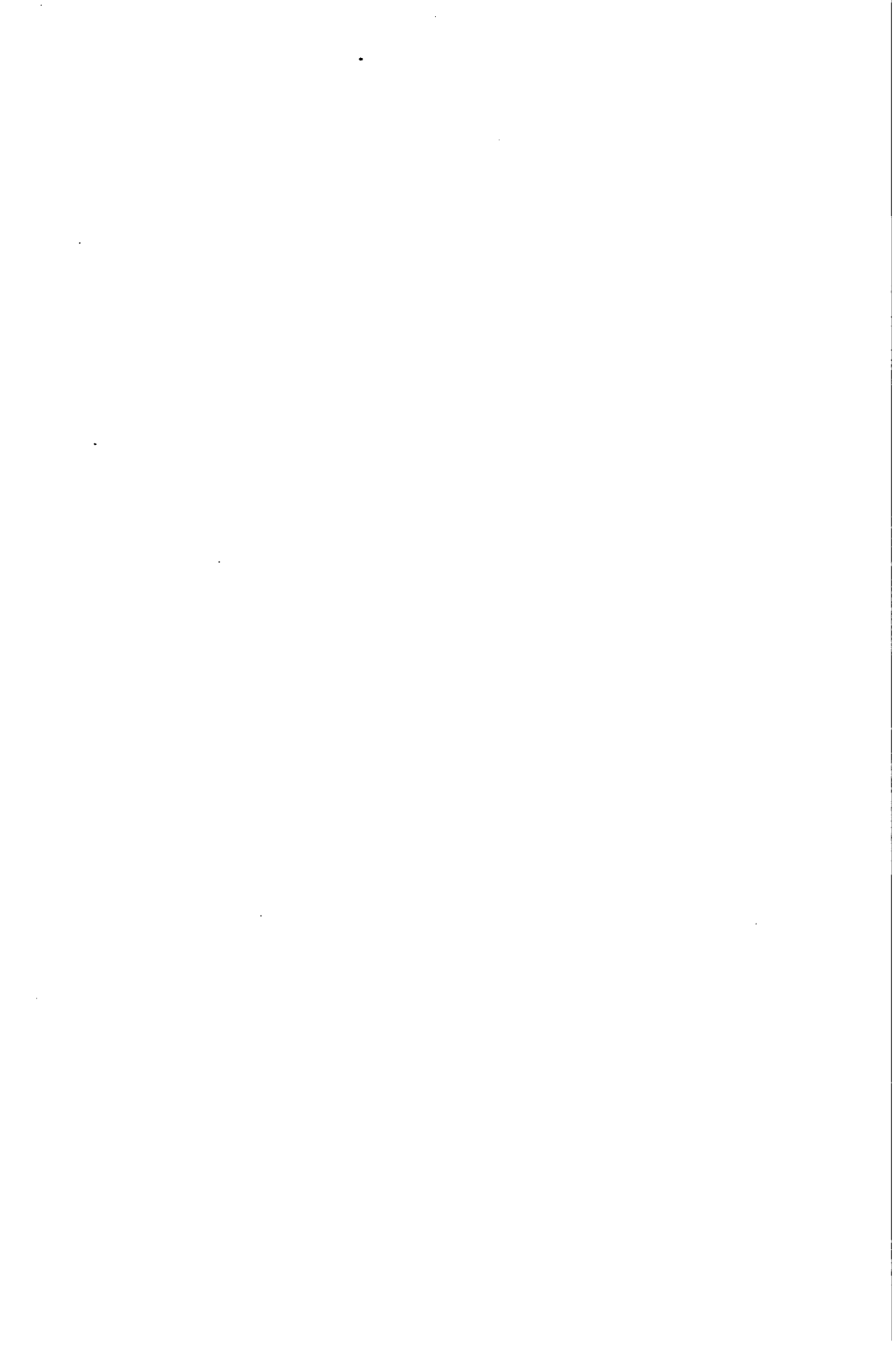
there has been very little trouble of this nature on account of the high grade construction generally adopted by the railway people. It is the belief of the writer that there is no street railway construction in the country that exceeds, if there is any that equals, that in Cleveland. There is, however, one vicious practice which has not been entirely discontinued, *i.e.*, the use of pipes for the return current from stationary motors and lamps. While there is a comparatively small amount of this service, I would recommend that the practice be entirely discontinued, and that the return wires in all cases for this service be run to and securely attached to the rails or returned to the power houses.

In conclusion, I desire to express to you my sincere thanks for the uniformly courteous treatment and encouragement received from you in my endeavors to secure the necessary improvements which have been made within the past year.

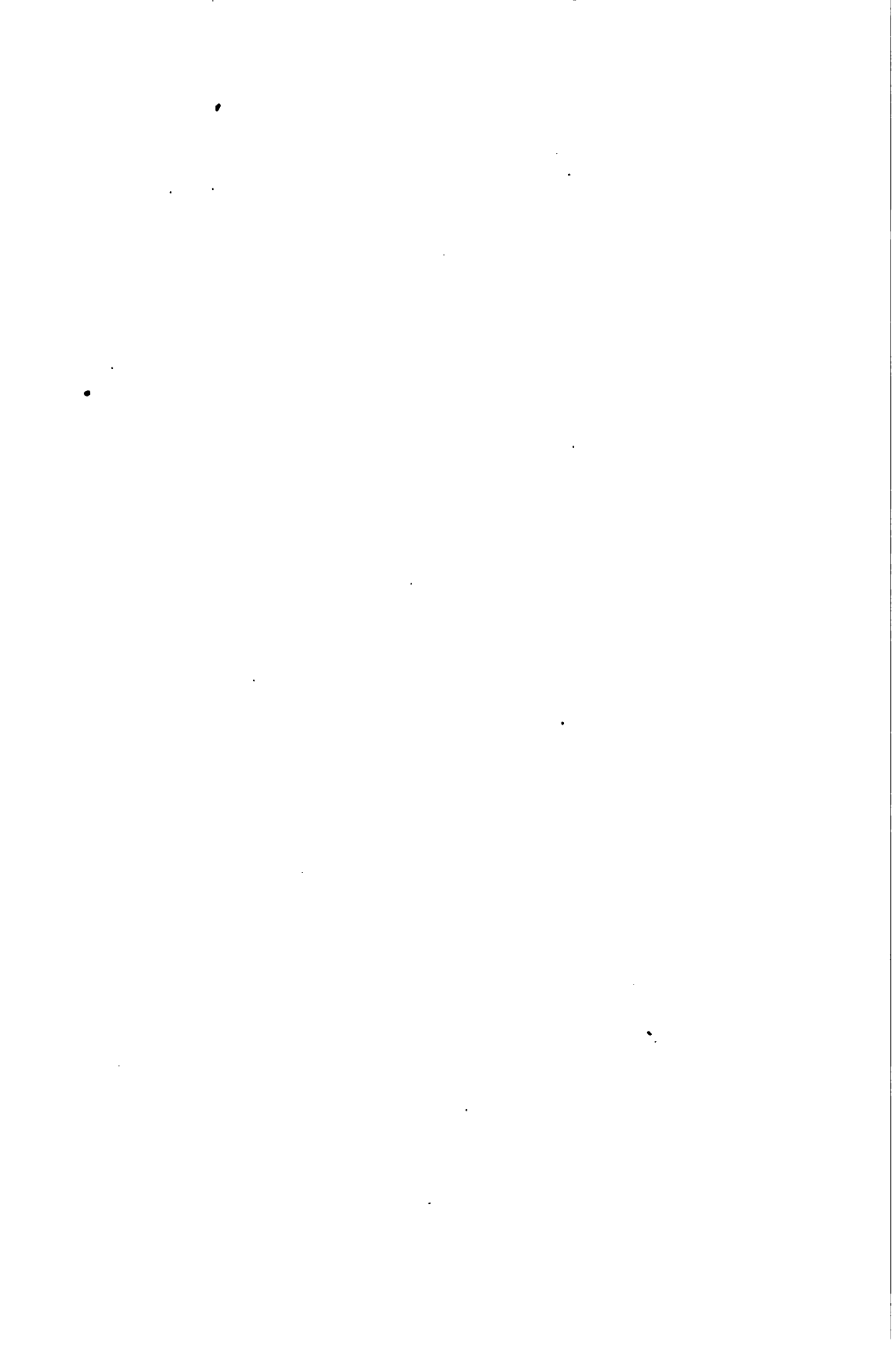
Very respectfully,

GEORGE M. HOAG,

City Electrician.



DEPARTMENT OF LAW.



Corporation Counsel's Report.

CLEVELAND, OHIO, March 31, 1894.

To the Council:

I submit herewith the report of the Department of Law for the year ending March 31, 1894, which contains a statement of the actions brought by or against the city and its various officers during the year, the actions disposed of during said period, and those now pending in the several courts. I reserve a more detailed statement of the business of the department until the end of the present term.

Respectfully,

JAMES LAWRENCE,

Corporation Counsel.

**CASES BROUGHT BY OR AGAINST THE CITY OR ITS OFFICERS
OR AGENTS IN THE VARIOUS COURTS, FROM APRIL
1, 1893, TO MARCH 31, 1894.**

IN THE CIRCUIT COURT OF CUYAHOGA COUNTY.

Clark vs. City. Equitable relief—appeal.
Herrick, et. al vs. City. Injunction and equitable relief.
Mackey vs. City. Error to Common Pleas.
State, ex rel., Phinney vs. Blee, mayor. Police matrons.

Cases begun in Court of Common Pleas since April 1, 1893:

44938 Green vs. Green, et al. City garnishee.
44970 Moore, Admr'x, vs. City. Damage to property.
45016 Mackey vs. City. Error to Police Court.
45352 Smith vs. City. Money only.
45528 Harrison, et al., vs. City. Money only.
45533 Griffiths vs. City. Money only.
45677 Profant vs. Stockey, et al. To subject funds.
45722 Steele vs. City, et al. Personal injury.
45779 Shields, Treas., vs. Thomas, et al. To subject lands.
45873 Mehner, Admr'x, vs. City.
46006 Mack vs. City.
46039 Phillips vs. Brown, J. P. False imprisonment.
46091 State, ex rel., Griffin vs. Madison, Director. Mandamus.
46279 Thoman vs. City. Personal injury, S. Water street bridge.
46240 Baldt vs. City. Same.
46281 Baldt vs. City. Same.
46317 Katt vs. City. Same.
46343 Seabolt vs. City. Same.
46420 City vs. C. C. C. & St. L. R. R. Co., et al. (Lake Front case.)
46433 Board of Education vs. Larwood & Day Co. Money with attachment.
46466 Hoensen vs. City. Personal injury.
46744 Sponhour vs. City. Back salary.
46793 Joline vs. City. Personal injury.
46816 Kummer vs. Dub, et al. Accounting and relief.
47057 Smith vs. Boys, et al. To subject lands.

47199 State, ex. rel., Vernon H. Burke vs. Mullen, et al., members of Board of Elections.

Mandamus.

47229 Shields, Treas., vs. Green, et al. To subject lands.

47293 Same vs. McMahon, et al. Same.

47296 Same vs. Schoeneman, et al. Same.

47339 Same vs. Smith, et al. Same.

47341 Same vs. Coulton, et al. Same.

47362 Morgan vs. City. Damage to property.

47395 Board of Education vs. Hayes, et al. Money only.

47456 Cleveland Baking Co. vs. City. Error to Probate Court.

47577 City vs. Cleveland Electric R'y Co. Specific performance, etc.

47589 Ohnenhauser vs. City. Injunction, etc.

47656 Palmer vs. City. Money (slope right.)

47793 Foyer vs. Luehrs, patrolman. Unlawful arrest.

47839 Lindeman vs. Board of Education, et al.

47900 Kurtz vs. City. Error to Police Tribunal.

47941 Shields, Treas., vs. Bennett, et al. To subject lands.

47943 Same vs. McMahon, et al. Same.

48022 Horr vs. Shields, Treas., et al. Injunction, etc.

58054 State, ex. rel., Paige vs. Blee, et al. Mandamus.

48059 Campbell vs. City. Personal injury.

48149 French vs. City, et al. Injunction.

48178 Maly vs. Safranek. Assault and battery.

48299 Meek vs. City. Damage to property.

48402 Powers vs. City. Personal injury.

IN PROBATE COURT OF CUYAHOGA COUNTY.

Cosgrove, et al., vs. City. Damages—Gaylord street.

Wightman, et al., vs. City. Damages—Homewood avenue.

Evans vs. City. Damages—Decatur alley.

The following cases were disposed of in the various courts between April 1, 1893, and March 20, 1894:

IN THE CIRCUIT COURT OF CUYAHOGA COUNTY.

State, ex. rel., Phinney vs. Blee, mayor. Mandamus.

IN THE COURT OF COMMON PLEAS.

39118 Rachel Goings vs. City of Cleveland. \$10,000. Disposed of at September term, 1893.

33441 Board of Education vs. Axworthy. Action against bondsmen.

35184 Ohnenhauser vs. City. Damage to property by grading.

- 35561 Wiegand vs. City. Personal injury.
- 35957 Board of Education vs. City. In re Axworthy case.
- 39467 Luetkemeyer vs. Board of Education. Garnishment.
- 39920 Schweitzer vs. City. Personal injury.
- 40306 John McKenna vs. City. Damage to property.
- 40307 James Cunningham vs. City. Damage to property.
- 40824 Kilbane vs. Winchester. Assault and battery.
- 41108 City vs. United Salt Co. To recover inspection fees.
- 41363 O'Shea, admrx., vs. City. Personal injury.
- 41415 Joseph Quinn vs. City. Personal injury.
- 41552 Euclid Ave. National Bank vs. City. Garnishment.
- 41555 Union National Bank vs. City. Garnishment.
- 41581 Brown vs. City. Personal injury.
- 41663 Gallagher vs. City. Recover money held by Police.
- 41718 Bennien vs. City. Personal injury.
- 41948 McKinney vs. Ohmenhauser, etc. Garnishment.
- 42078 City vs. Axworthy et al. Axworthy defalcation.
- 42164 Corrigan vs. McAleer. False imprisonment.
- 42168 Mitchell vs. City. Damages by collision.
- 42483 Lamm vs. Hines, patrolman. Assault and battery.
- 43410 Clark vs. City. Money only.
- 43112 O'Dell vs. City. Injunction.
- 43865 In re application of Columbia Brewing Co. Vacation of Harrison street.
- 44286 Borbeck vs. City. Consequential injury.
- 44349 Herrick et al. vs. City. Injunction (Central Market).
- 44683 Walsh, admr., vs. City.
- 44808 L. P. Smith vs. City. Damages.
- 44950 Reeves vs. Griffin. Injunction.
- 44963 Reeves vs. Rose et al. Injunction.
- 42325 Bevis vs. Latimer. Injunction—dismissed as to City of Cleveland.
- 43307 City vs. Brewster. Appropriation.
- 43199 Flint vs. City. Money only.
- 44360 The Society for Savings vs. Catherine Hueffed et al.
- 45016 Joseph Mackey vs. City.
- 46039 Emma Phillips vs. John Brown, J. P. False imprisonment.
- 45873 Mary Mehner, admrx. vs. the City. Money only.
- 46433 Board of Education vs. The Larwood Day Co. Money with attachment.
- 46091 State of Ohio ex rel. Griffin vs. Wm. A. Madison, Director of Accounts. Recovery of salary.
- 47057 L. K. Smith vs. Boys et al. Equitable relief.

- 47229 Jos. C. Shields, *treas.* vs. Arnold Green et al.
 47339 Jos. C. Shields, *treas.*, vs. Elizabeth Smith et al.
 47341 Jos. C. Shields, *treas.*, vs. John Coulton et al.
 47577 The City vs. the Cleveland Electric R. R. Co.
 47296 Jos. C. Shields vs. Henry Schoneman et al.
 47900 J. F. Kurtz vs. City. Petition in error.
 48058 The State ex rel. Tom Page vs. Robert Blee, *mayor*.
 47199 State ex rel. Vernon H. Burke vs. Mullen et al., members of Board of Elections.
 Mandamus to compel registration.

IN THE PROBATE COURT OF CUYAHOGA COUNTY.

- Cleveland Baking Company vs City. Damages. Wigman Lane.
 S. G. Cosgrove et al. vs. City. Damages—Gaylord street.
 City vs. T. J. Mooney et al. Appropriation.

The following cases were pending in the various courts on
 March 20, 1894.

IN THE CIRCUIT COURT OF THE UNITED STATES.

- Wm. Briekel vs City. Infringement of patent.
 Edward Van Orden vs. City et al. Same.
 Pennsylvania Company vs. City et al. Injunction—Whiskey Island.
 Ella Murphy vs. City. Personal injury.

IN SUPREME COURT OF OHIO.

- Borges vs. City.

Cases pending in the Circuit Court of Cuyahoga County.

- Keiper vs. City. Assessment.
 Otis vs. City. Walworth street opening assessment.
 Weitz vs City. Same.
 Lindsley vs. City. Same.
 Sargent vs. City. Same.
 Cleveland Stock Yard Company vs. City. Same.
 C. C. C. & St. L. Ry. Co. vs. City. Same.
 Valley Ry. Co. vs. City. Injunction.
 Watterson, Assignee vs. City. Garnishment.
 Himrod Furnace Company vs. City. Same.
 Selden vs. City. Walworth street opening assessment.
 Clark vs. City. Equitable relief—appeal.
 Herrick et al. vs. City. Equitable relief—appeal.
 Mackey vs. City. Error to Common Pleas.

The following cases were pending in the Court of Common Pleas March 20, 1894.

- 17157. Northern Transit Company vs. City. Injury to property.
- 17306. Watterson vs. Russell. To subject lands.
- 21196. Robinson vs. City. Damage to property.
- 21197. Collings vs. City. Same.
- 21198. Herrick vs. City. Same.
- 24788. Board of Education vs. McMahon. Foreclosure.
- 25567. Crocker vs. Whitbeck. To recover back assessment.
- 28771. Kindsvater vs. City. Injunction—assessment.
- 29501. Gordon vs. City. Injunction—assessment.
- 33913. Krauss vs. City. Damage to property.
- 33923. Laffrinier vs. Valley Ry. Co. Recovery of real property.
- 33924. Laffrinier vs. City. Same.
- 36242. Barkwill vs. City. Garnishment.
- 36391. Tuttle vs. City. Damage to property.
- 36877. Willett vs. Downer. To quiet title.
- 39055. Eliza P. O. Crocker vs. City. Injunction—assessment.
- 40189. Nowak vs. Ryan et al. False imprisonment.
- 40566. Michael Ryan vs. City. To recover buggy hire.
- 40651. Anna Welsh vs. City. Personal injury.
- 40652. W. H. Welsh vs. City. Damages—injury to wife.
- 41075. Stanton vs. City. To recover extra pay.
- 41397. Carnay vs. City. Personal injury.
- 41431. Watterson vs. Mahon et al. To subject credits.
- 41517. Colahan vs. Schlather et al. To open alley.
- 41628. Quinn vs. City. To recover back pay.
- 41756. Sack vs. City et al. Personal injury.
- 41966. Molt Admr'x vs. City et al. Personal injury.
- 42250. Stofer vs. City. Personal injury.
- 42879. Beanoska vs. Adams. Money only.
- 42959. Ingersoll vs. City. Personal injury.
- 43320. Martens vs. City. Personal injury.
- 43399. Maher vs. Sloss et al. Personal injury.
- 43484. Hynes vs. E. C. R. R. Co. et al. Personal injury.
- 43491. L. S. & M. S. Ry. vs. City. Injunction (Whiskey Island).
- 43500. Poss vs. City. Money only.
- 43517. Gray vs. City. Damage to vessel.
- 43835. Wightman vs. City. Grading damages.

- 44009. Enos vs. Collings. Malicious prosecution.
- 44041. Enos vs. Collings. Appeal from J. P.
- 44061. Belz vs. Collings. Appeal from J. P.
- 44331. Banes vs. City. Personal injury.
- 44352. Gabriel vs. City. Damage to property.
- 44383. State ex rel. Schendel vs. Fire Department. Mandamus.
- 44438. City vs. Fliedner. Money only.
- 44583. Southern vs. City et al. Injunction.
- 44684. City vs. Koblitz et al. Appeal from J. P.
- 44843. Burke vs. City. Damage to property.
- 44970. Moore vs. City. Damage by street grading.
- 44680. Society for Savings vs. Hueffed et al. To subject lands.
- 44938. Green vs. Green et al. Divorce and alimony.
- 44970. Moore Admr'x vs. City. Damages.
- 45352. Smith vs. City. Money only.
- 45528. Harrison et al. vs. City. Money only.
- 45533. Griffiths vs. City. Money only.
- 45677. Profant vs. Stockey. Subject funds.
- 45722. Steele vs. City et al. Personal injury.
- 45779. Shields, Treasurer. vs. Thomas et al. To subject lands.
- 46006. Mack vs. City et al. Money only.
- 46279. Thoman vs. City. Personal injury.
- 46280. Baldt vs. City. Same.
- 46281. Baldt vs. City. Same.
- 46317. Katt vs. City. Same.
- 46343. Seabolt vs. City. Same.
- 46420. City vs. C., C. & St. L. R. R. Co. et al. To recover lands.
- 46466. Hoensen vs. City et al. Personal injury.
- 46744. Sponhour vs. City. Back pay.
- 46793. Joline vs. City. Personal injury.
- 46816. Kummer vs. Dub. Accounting and relief.
- 47298. Shields, Treasurer et al. vs. McMahon et al. To subject lands.
- 47362. Morgan vs. City. Damage to property.
- 47395. Board of Education vs. Hays et al. Money only.
- 47456. Cleveland Baking Company vs. City. Error to Probate Court.
- 47589. Ohmenhauser vs. City. Injunction, etc.
- 47656. Palmer vs. City. Money only.
- 47793. Foyer vs. Luehrs, Patrolman. Unlawful arrest.
- 47839. Lindeman vs. Board of Education et al. Money only.

47941. Shields, Treas. vs. Bennett et al. To subject lands.
 47943. Shields, Treas. vs. McMahon et al. Same.
 48022. Horr vs. Shields, Treas. et al. Injunction, etc.
 48059. Campbell vs. City. Personal injury.
 48149. French vs. City et al. Injunction.
 48178. Maly vs. Safranek, Patrolman. Assault and battery.
 48289. Meek vs. City. Damage to property.
 48402. Powers vs. City. Personal injury.

IN THE PROBATE COURT.

- Wightman et al. vs. City. Damages—Homewood avenue.
 Evans vs. City. Damages—Decatur alley.

Cases pending April 1, 1893.

Circuit Court of the United States	4
Supreme Court of Ohio.....	1
Circuit Court of Cuyahoga County.....	14
Common Pleas Court of Cuyahoga County.....	87
Probate Court of Cuyahoga County.....	2

Cases begun from April 1, 1893, to March 20, 1894.

Circuit Court of Cuyahoga County.....	4
Common Pleas Court of Cuyahoga County.....	49
Probate Court of Cuyahoga County.....	3

Cases disposed of from April 1, 1893, to March 20, 1894.

Circuit Court of Cuyahoga County.....	1
Common Pleas Court of Cuyahoga County.....	50
Probate Court of Cuyahoga County.....	2

Cases pending March 20, 1894.

Circuit Court of the United States.....	4
Supreme Court of Ohio.....	1
Circuit Court of Cuyahoga County.....	14
Common Pleas Court of Cuyahoga County.....	84
Probate Court of Cuyahoga County.....	2

DEPARTMENT OF
CHARITIES and CORRECTION.

OFFICERS.

WILLIAM J. McKINNIE, Director.

EDWARD D. HAYES, Secretary.

RICHARD A. BUTLER, Superintendent Workhouse.

EDWARD MOLONY, Superintendent Infirmary.

FRED. C. EMDE, Supervisor Cemeteries.

Director's Report.

To the Honorable Robert Blee, Mayor of Cleveland.

DEAR SIR:—I herewith present the annual report of the Department of Charities and Correction, for the year ending December 31st, 1893.

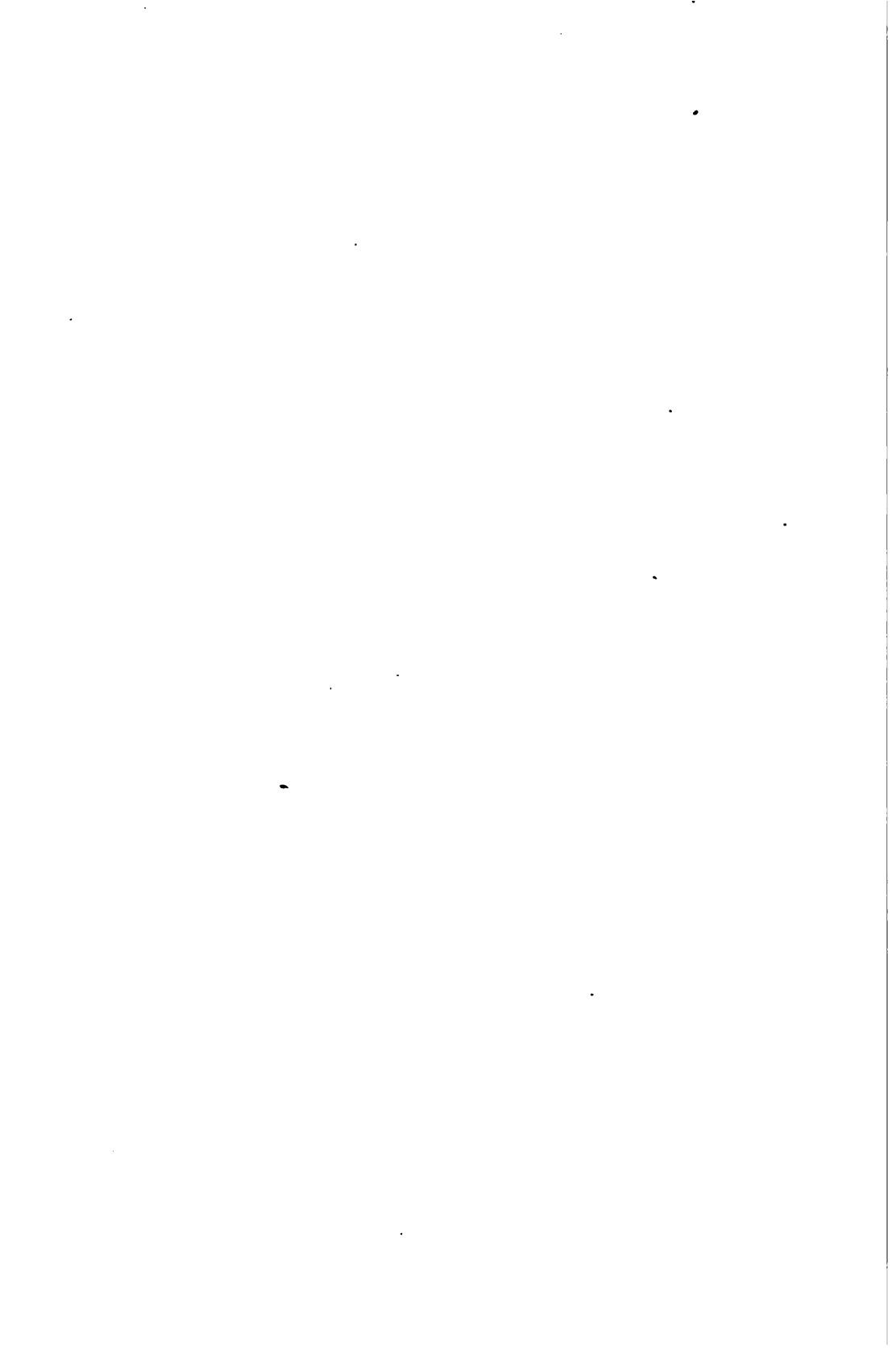
I respectfully submit for your kind consideration, the attached very minute statistical reports of the Superintendent of House of Correction, Supervisor of Cemeteries, Superintendent and Steward of Infirmary and Hospital Staff of Physicians.

Thanking you for the uniform courtesy and co-operation which I have received at your hands, I am

Respectfully,

WM. J. MCKINNIE,

Director of Charities and Correction.



Department of Charities and Correction.

(INFIRMARY.)

INFIRMARY DIVISION.

1893.

DIRECTOR.

HON. WM. J. MCKINNIE.

SUPERINTENDENT.

EDWARD MOLONY.

CLERK.

J. C. REIBER.

STEWARD OF INFIRMARY.

JOHN T. FLYNN.

Superintendent's Report.

CITY INFIRMARY,
CLEVELAND, O., December 31, 1893. }

Hon. William J. McKinnie, Director of Charities and Correction:

DEAR SIR:—I herewith present my annual report as Superintendent of the Infirmary Division, for the year ending December 31, 1893.

By reference to our statistical reports, it will be noted that never in the history of this city has this department been taxed for relief for the sick and indigent as in the year just passed, thereby causing an almost endless drain upon our resources; this condition of affairs being caused by the stringency of the times, lack of employment for the laboring classes, and the large foreign element who have come almost penniless, many of whom become a charge on our institutions shortly after their arrival in this country.

The drain upon the Out-Door Relief Department has exceeded all our calculations, as many as 459 persons receiving supplies in one day. The duties of all those connected with this

department have been very arduous, and I cheerfully commend them to you for their untiring and conscientious devotion to their several duties.

Four thousand six hundred and twenty-eight families, or a total of eighteen thousand four hundred and twelve persons, were supplied with groceries, coal and shoes.

The accommodations of the Hospital and Infirmary Department Buildings have been taxed to the limits of their capacity. Still the excellent care and attention given to the management of the institution leaves it at present in a condition that will compare favorably with any similar one in the country.

To the Steward, Mr. John T. Flynn, the Matron, Mrs. John T. Flynn and their several assistants, for their co-operation, untiring and conscientious devotion to the interests of the institution, I desire to express my sincere thanks.

The following statistical tables will give an intelligent idea of the work performed and present condition of this department.

I am respectfully,

EDWARD MOLONY,

Superintendent.

Steward's Report.

Edward Molony, Superintendent:

DEAR SIR:—I herewith present to you, this, my first annual report of my stewardship of the City Hospital, for the year ending December 31, 1893.

In submitting this report I respectfully call your attention to some of the necessary and important repairs and improvements accomplished under your advisement.

INSANE.

To properly provide and care for the insane is at most a perplexing question. Under the able supervision of Mr. Armin Ling of the male and Mrs. Cassie Cowley of the female departments, respectively, marked improvements are noticeable in the demeanor and general condition of this class of unfortunate persons under their charge. I may note that the system formerly in vogue, physical restraint and close confinement, has been supplanted by one of moral suasion, kind influences, light employment and out-door exercise, with excellent and beneficial results.

I have endeavored at all times to make provision, as economically as possible, for proper and ample food and nourishment for all inmates, especially so in the case of the hospital patients, in the latter case, I have closely followed the advice and directions of our able hospital staff.

Among the most noticeable improvements, I may note the extension of a six inch iron pipe to all parts of our group of buildings; this in connection with a powerful steam pump is for

protection in case of fire; new bath tubs, sewer and water traps; completing and furnishing the surgery clinic room with all modern improvements; painting walls, ceilings and interior wood work of hospital and infirmary buildings at a cost of material only; whitewashing of fences and out-buildings; improvement of ambulance service, by providing new horse, swinging harness and competent driver and attendant who are neatly uniformed; the building of a new and substantial barb wire fence encircling the farm; the laying of a large amount of drainage tile, which has resulted in making a large area of our farm productive, which in the past has been practically valueless for any purpose whatever. The extra attention and marked improvements in the cultivation of the large area of farm land attached to our institution, leads us to hope for beneficial results during the coming year. The products of the same will in a large measure become a source of sustenance to our institution.

A large amount of the labor performed on the improvements about our grounds has been furnished through the Outdoor Relief Department. A report of the number of men engaged and meals furnished the same will be found in our statistical reports.

Realizing that without the co-operation of my assistants, an institution of this nature and magnitude would be more or less a failure, I desire at this time to extend my sincere gratitude to one and all for the kind, generous and unselfish aid extended to me in discharging their duties.

For many courtesies extended and kind co-operation, please accept my sincere thanks.

Respectfully submitted,

JOHN T. FLYNN,

Steward.

RECEIPTS AND EXPENDITURES FOR THE YEARS
1892—1893.

RECEIPTS, 1892.

Cash on hand Jan'y 1, 1892,	\$23,238 28	
Received from Dow law tax,	75,081 71	
" " county,	32,357 62	
" " townships, etc.,	5,805 77	
	<u> </u>	\$136,483 38

DISBURSEMENTS, 1892.

Pay-roll, officers and employes,	\$20,728 66	
Infirmary, hospital and farm supplies, .	42,873 32	
Permanent improvement and repairs, .	32,820 85	
Outdoor relief expense,	26,041 37	
Balance on hand January 1, 1893, . . .	14,019 17	
	<u> </u>	\$136,483 38

RECEIPTS, 1893.

Cash on hand January 1, 1893,	\$14,019 18	
Received from Dow law tax,	96,610 03	
" " county,	29,362 33	
" " townships, etc.,	6,613 27	
	<u> </u>	\$146,604 81

DISBURSEMENTS, 1893.

Pay-roll, officers and employes,	\$21,839 48	
Infirmary, hospital and farm supplies, .	59,997 56	
Permanent improvements and repairs, .	23,190 26	
Outdoor relief expense,	37,696 61	
Balance on hand January 1, 1894, . . .	3,880 90	
	<u> </u>	\$146,604 81

Out-Door Relief.

FAMILIES.			
	1891.	1892.	1893.
Married,	524	602	2493
Widows,	759	849	1230
Grass widows,	464	553	707
Widowers,	42	34	81
Grass widowers,	9	7	32
Single,	45	29	85
	<hr/>	<hr/>	<hr/>
Total,	1843	2074	4628

GROCERIES.			
	1891.	1892.	1893.
Flour,	204,520 lbs.	248,060 lbs.	390,760 lbs.
Corn meal,	775 "	3,995 "	4,985 "
Peas,	3,852 "	4,896 "	11,674 "
Beans,	11,324 "	14,430 "	27,817 "
Tea,	5,864 "	7,453 "	9,698 "
Coffee,	6,384 "	8,323 "	13,171 "
Rice,	6,490 "	8,974 "	27,762 "
Oatmeal,	6,186 "	7,905 "	13,960 "
Sugar,	22,836 "	26,984 "	39,719 "
Barley,	1,390 "	2,335 "	3,864 "
Soap,	7,625 "	10,167 "	14,021 "
	<hr/>	<hr/>	<hr/>
Total,	277,146 "	343,522 "	557,431 "

Total number of issues of groceries, for 1893, 27,867

Average number of issues of groceries per day. 89½

Number of packages issued, 190,070

ORDERS ISSUED.

	1891	1892	1893
Coal delivered—tons.....	3,075	4,032	9,976
Railroad passes.....	783	830	1,197
Shoes—pairs.....	64	40	2,822
Burial and grave orders.....	301	316	449
Coffins furnished.....	110	150	214
Work orders to Infirmary.....	1,168	501	5,711
Investigations of families.....	2,809	2,993	6,435
Permits to Infirmary Hospital.....	854	1,030	1,252

NATIVITY OF FAMILIES.

	1891	1892	1893
United States.....	443	471	1,129
Ireland	485	535	824
Germany.	427	452	875
Bohemia.....	134	191	378
England	102	98	187
Canada	62	64	99
Hungary	26	46	258
Poland.....	57	92	642
Scotland	16	19	40
Switzerland	15	11	18
Holland.....	7	7	8
Wales	9	15	28
Austria.....	9	14	50
Russia.....	17	24	30
France.....	1	.....	2
Sweden	4	4	4
Denmark	1	3	5
Italy	26	24	45
Norway	2	1	1
Roumania.....	.....	1	1
Moravia.....	.....	.....	1
Spain .....	.....	.....	1
Finland.....	.....	.....	1
Arabia.....	.....	.....	1
Turkey .....	.....	1	.....
Newfoundland .....	.....	1	.....
Total.....	1,843	2,074	4,628

It will be of interest to observe the table below, showing the daily and yearly averages, the three years last past, giving a practical idea of the growth of the Institution.

In the nationality table, further on, it will be found that in the number remaining (on hand) December 31st, 1892, and those admitted during the year ending December 31st, 1893, we find that 31 different nations are represented; and if we count the colored man after his native country, then there will have been 32 nations represented.

1893.	Male Insane.	Female Insane.	Male Hospital.	Female Hospital.	Male Middle.	Female Middle.	Total for Each Month.	Daily Averages of Each Month.
January	4,162	3,968	2,065	1,284	4,827	1,653	17,939	573.1
February	3,808	3,550	2,072	1,455	4,649	1,493	17,027	608.1
March	4,205	3,924	1,983	1,569	4,751	1,621	18,060	583.1
April	4,022	3,754	1,704	1,459	4,196	1,472	16,606	553.1
May	3,825	4,639	1,636	1,631	4,374	1,528	16,633	639.1
June	3,436	3,429	1,516	1,662	4,768	1,529	16,340	566.1
July	3,521	3,575	1,898	1,528	4,749	1,620	16,881	544.1
August	3,510	4,043	1,926	1,533	4,893	1,651	17,556	566.1
September	3,460	3,331	1,768	1,610	5,119	1,561	16,849	561.1
October	3,673	3,464	2,204	1,807	5,763	1,769	18,680	602.1
November	3,526	3,392	2,256	1,748	6,392	1,801	19,105	636.1
December	3,563	3,651	2,494	1,763	7,083	2,021	20,587	662.1
Totals for the year.....	44,718	48,620	23,512	19,096	61,563	19,699	212,233	

INFIRMARY.

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DAILY AVERAGES, MONTHLY AND YEARLY TOTALS.

1891.

	Male Insane.	Female Insane.	Male Hospital.	Female Hospital.	Male Middle.	Female Middle.	Total.	Increase.
Totals for the year	48,491	47,117	22,118	17,906	43,088	19,815	198,535	21,824
Daily averages	132.111	129.433	60.111	49.411	118.411	54.111	543.111	.....

1892.

Totals for the year	50,835	48,842	22,956	16,759	47,994	19,250	206,586	8,051
Daily averages	137.111	133.111	62.111	45.111	131.111	52.111	561.111	.....

1893.

Totals for the year	41,743	43,620	23,512	19,096	61,563	19,699	212,233	5,647
Daily averages	122.111	119.411	64.111	52.111	169.111	53.111	581.111	.....

REPORT OF MEALS FURNISHED TO MEN SENT
FROM OUT-DOOR RELIEF DEPARTMENT.

1893.	MEALS.
May..... 592 men from city.....	684
June..... 480 men from city.....	760
July..... 321 men from city.....	642
August..... 210 men from city.....	320
September..... 420 men from city.....	720
October..... 223 men from city.....	874
November..... 929 men from city.....	1,140
December..... 849 men from city.....	942
Total.....4,024	6,062

NATIONALITIES.

The table below is given as that of the different nationalities, together with the number of each during the year ending Dec. 31, 1893.

1893.	Male. Insane.	Female Insane.	Male. Hospital.	Female. Hospital.	Male. Middle.	Female. Middle.	Total.
United States.....	52	51	233	155	411	26	628
Germany	61	50	110	19	94	11	365
Ireland	36	47	106	47	125	88	449
England.....	6	5	39	11	34	3	98
Scotland.....			12	5	9	2	28
Bohemia.....	10	11	14	14	18	1	68
Sweden	1		4		1		6
Wales.....	2		6	3	12	2	23
Hungary.....	3	2	24	8	5		42
Austria.....			15	5	1		21
France.....	2		2		1		5
Russia.....	1		8	1			10
Holland			2		1	1	4
Canada.....	5	4	9	5	9	3	35
Isle of Man.....	1	3		1	1		6
Switzerland.....	1		4	1	6		12
Poland.....	3		17	4	4		28
Denmark			2	1	1	1	5
West Indies.....					1		1
Italy.....			2				2
Prussia.....	1				1		2
Norway.....			2				2
Turkey.....			1				1
Arabia.....			1				1
Africa.....					1		1
Total for the year	185	173	613	300	436	138	1,845

MONTHLY REPORT OF INMATES, 1893.

ANNUAL REPORT.

	Middle Dept.		Insane Dept.		Hospital Dept.		No. Males.	No. Females.	Total.
	Males.	Fem.	Males.	Fem.	Males.	Fem.			
On hand, Jan. } 1, 1893.....	150	51	134	129	61	40	345	220	565
Discharged	15	4		4	29	5	44	13	57
Deaths.....			2		10	3	12	3	15
Received.....	31	6	3	1	46	13	80	20	100
Births.....									
Feb. 1st.....	166	53	135	126	68	45	369	224	593
Discharged	16	3			31	11	47	14	61
Deaths.....					8	3	8	3	11
Received.....	11	4	3	1	41	17	55	22	77
Births.....						1		1	1
Mar. 1st.....	161	54	138	127	70	49	369	230	599
Discharged	35	11	3	2	43	18	80	31	111
Deaths.....			2		11	5	13	5	18
Received.....	15	4	3	1	41	22	59	27	86
Births.....									
Apr. 1st.....	141	47	136	126	58	48	335	321	656
Discharged	29	10	2	2	44	18	75	30	105
Deaths.....			2		8	5	10	5	15
Received.....	27	7	3		49	18	79	25	104
Births.....						2		2	2
May 1st.....	139	44	135	124	55	45	329	213	542
Discharged	21	11	23	19	53	22	97	52	149
Deaths.....			1		9	5	10	5	15
Received.....	27	16	9	9	55	33	91	58	149
Births.....						3		3	3
June 1st.....	145	49	120	114	48	54	313	217	530
Discharged	31	5	9	1	34	27	74	33	107
Deaths.....			1		7	3	8	3	11
Received.....	36	8	3	4	52	24	91	36	127
Births.....						6		6	6
July 1st.....	150	52	113	117	59	54	322	223	545

MONTHLY REPORT OF INMATES, 1893—Continued.

	Middle Dept.		Insane Dept.		Hospital Dept.		No. Males.	No. Females.	Total.
	Male.	Fem.	Male.	Fem.	Male.	Fem.			
On hand July 1, 1893.....	150	52	113	117	59	54	322	223	545
Discharged.....	22	5		4	32	30	54	39	93
Deaths.....				1	5	4	5	5	10
Received.....	27	9	1	1	36	23	64	33	97
Births.....						3	3		3
Aug. 1st.....	155	56	114	113	58	46	327	215	542
Discharged.....	12	9	3	4	46	16	61	29	90
Deaths.....					4	3	4	3	7
Received.....	19	4	2	2	48	24	69	30	99
Births.....						3	2	1	3
Sept. 1st.....	162	51	113	111	56	54	331	216	547
Discharged.....	17	3	1	2	36	23	54	28	82
Deaths.....					6	2	6	2	8
Received.....	30	4	3	3	54	28	87	35	122
Births.....						4	4		4
Oct. 1st.....	175	52	115	112	68	61	358	225	583
Discharged.....	10	3	3	3	36	24	49	30	79
Deaths.....					14	7	14	7	21
Received.....	34	11	6	2	57	28	97	41	138
Births.....						4	2	2	4
Nov. 1st.....	199	60	118	111	75	62	392	233	625
Discharged.....	11	3	3	1	42	34	56	38	94
Deaths.....					6	9	6	9	15
Received.....	19	7	2	4	49	35	80	46	126
Births.....						1		1	1
Dec. 1st.....	217	64	117	114	76	55	410	233	643
Discharged.....	4	2	3	1	44	24	51	27	78
Deaths.....					8	3	8	3	11
Received.....	25	4	2	2	59	25	86	31	117
Births.....						1		1	1
On hand Jan. 1, 1894.....	238	66	116	115	83	54	437	235	672

TOTAL NUMBER RECEIVED DURING 1883.

	Males.	Females.	Total.
January.....	80	20	100
February.....	55	22	77
March.....	59	27	86
April.....	79	25	104
May.....	91	58	149
June.....	91	36	127
July.....	64	33	97
August.....	69	30	99
September.....	87	35	122
October.....	97	41	138
November.....	80	46	126
December.....	86	31	117
	938	404	1,342

TOTAL NUMBER OF BIRTHS DURING 1893.

	Males.	Females.	Total.
January.....			
February.....	1		1
March.....			
April.....	2		2
May.....	3		3
June.....	3	3	6
July.....	1	2	3
August.....	2	1	3
September.....	4		4
October.....	2	2	4
November.....		1	1
December.....		1	1
	18	10	28

TOTAL NUMBER DISCHARGED DURING 1893.

	Males.	Females.	Total.
January.....	44	13	57
February.....	47	14	61
March.....	80	31	111
April.....	75	30	105
May.....	97	52	149
June.....	74	33	107
July.....	54	39	93
August.....	61	29	90
September.....	54	28	82
October.....	49	30	79
November.....	56	38	94
December.....	51	27	78
	742	364	1106

TOTAL NUMBER DEATHS DURING 1893.

	Males.	Females.	Total.
January.....	12	3	15
February.....	8	3	11
March.....	13	5	18
April.....	10	5	15
May.....	10	5	15
June.....	8	3	11
July.....	5	5	10
August.....	4	3	7
September.....	6	2	8
October.....	14	7	21
November.....	6	9	15
December.....	8	3	11
	104	53	157

RECAPITULATION.

	Males.	Females.	Total.
Total No. Received during year.....	938	404	1342
" " Births " "	18	10	28
" " Discharge " "	742	364	1106
" " Deaths " "	104	53	157

No. Inmates on hand Jan. 1st, 1893, 565.—345 Males, 220 Females.

" " " " 1894, 672.

VALUE OF REAL ESTATE AND APPURTENANCES
THEREUNTO BELONGING.

REAL ESTATE.		
30 acres between Scranton and Jennings avenues.....	\$180,000	
56 acres between Jennings avenue and Cuyahoga river.....	90,000	\$270,000 00
BUILDINGS.		
Hospital building.....	\$100,000	
Hospital annex building.....	9,785	
Male insane building.....	60,000	
Female insane building.....	60,000	
Middle house and adjacent building	150,000	
New laundry building.....	7,280	
Barn, ambulance house and piggery.....	12,540	399,605 00
Total		\$669,605 00
HEATING PLANTS.		
Engineer's estimated report of the different boiler plants with		
Boiler plant, etc., in hospital.....	\$20,000	
Heating plant in infirmary and insane.....	29,500	
Boiler, engine and machinery in new laundry, and tools.....	6,200	
Machinery, etc., in old laundry.....	200	
Fire pump, pipe and connections	2,000	
Total		\$57,900 00

ESTIMATED VALUE OF HOUSEHOLD GOODS, WARES,
ETC., IN EACH DEPARTMENT.

Furniture, wares, etc., in administration part of Hospital and } Annex.....	\$ 2,989 40	
Furniture, bedding, etc., Male Hospital.....	1,354 65	
“ “ Female “	2,238 60	
“ “ Male Insane.....	4,381 50	
“ “ Female “	2,619 00	
“ “ Male Middle.....	3,353 10	
“ “ Female “	1,845 20	\$ 18,781 45
STORE ROOMS.		
Dry goods, clothing, etc.....	\$ 1,094 15	
Groceries, etc.....	402 38	1,496 53
STEWARD'S KITCHEN.		
Range, utensils, etc.....		375 00
Office furniture, safe, etc.....		272 00
RECEPTION ROOM.		
Furniture, etc.....	\$ 238 75	
Piano.....	300 00	538 75
Watchman's detector, fire alarm, etc.....		450 00
CHAPEL.		
Organ, furniture, etc.....		175 00
DISPENSARY.		
Drugs, chemicals, etc.....	800 00	
Surgical instruments, etc., in surgery.....	250 00	1,050 00
INMATES' KITCHEN.		
Range, steamers, utensils, etc.....		1,365 00

SEAMSTRESS' REPORT OF ARTICLES MANUFACTURED DURING THE YEAR.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pants.....	49	46	5	18	11	21	29	9	19	34	25	6	272
Coats.....	5	4	6	1	6	5	1		1		3	6	58
Vests.....	6	8	7	6	6	4	1			9	5	6	58
Shirts.....	118	78	60	55	96	120	88	22	92	104	103	90	1,026
Overshirts.....	6	6	20		22	12	18	1					85
Overalls.....	10	3	26				6	4	7		3		50
Dresses.....	17	26	35	33	23	26	26	30	27	9	27	6	285
Chemises.....	25	26	58	27	27	32	19	17	37	43		17	328
Aprons.....	17	1	34	10	4	44	11	39	37	19	9	66	291
Night gowns.....	12	12		8		29	10		14	16	14		115
Doctor gowns.....									13				13
Waists.....	2	1											3
Drawers.....		1	3								3		7
Skirts.....	59		4	28			2	17	30	22	33	48	253
Sheets.....	101	154	108	85	108	91	146	22	53	246	38	45	1,197
Pillow cases.....	10	190	87	74	33	110	130	63	111	234	176	84	1,308
Pillow ticks.....	24			5		62		108	135	39			373
Bed ticks.....	18	16	37	3		30	29	8	16	54	27	24	262
Pillow shams.....					4								4
Sacques.....			4				4				1		9
Blankets.....										20			20
Smoking jackets.....		4	3					8		6			21
Towels.....	35	28	63		16	32	126	25	86	88		100	602
Baker caps.....						4							4
Suspenders.....		55	85									12	152
Table cloths.....	2				20		3						25
Curtains.....	4					12							16
Napkins.....	12	66			6							24	108
Jumpers.....									24	15	47	12	98
Screens.....					9								9
Coffee bags.....		55	9		4								68
Totals.....	535	780	655	363	440	634	649	373	702	958	514	546	7,109

BAKER'S REPORT.

No. of loaves of Bread and Biscuit manufactured, 1893.

	Loaves of Bread.	Biscuit.
January.....	6,772	2,820
February.....	6,217	3,072
March.....	7,212	3,840
April.....	6,173	3,192
May.....	6,056	2,904
June.....	5,707	3,696
July.....	5,704	3,072
August.....	5,904	3,168
September.....	6,228	3,072
October.....	6,390	2,232
November.....	7,060	3,132
December.....	6,916	4,056
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	76,339	38,256

TINNER'S REPORT

Of New Ware manufactured at Infirmary.

Cutting Pans.....	2
Molasses Cans.....	2
Strainers.....	2
Wash-boiler bottoms.....	2
Pint Cups.....	93
Brass Oil-cans.....	2
Tea-pots.....	10
Coffee-pot bottoms.....	7
Funnels.....	2
Sprinklers.....	8
Eight Gal. Pails.....	1
Twelve Gal. Kettles.....	1
Four Gal. Pails.....	6
Scoops.....	4

Tea-pot-bottoms.....	3
One Pint Dippers.....	3
Ninety Gal. Coffee Boilers.....	2
Coffee Pots.....	5
Six Gal. Milk Cans.....	6
Large Galv. Iron Hood.....	1
Bread Boxes.....	5
Cracker “	2
Cake “	1
Salt “	1
Rice Boiler.....	1
Wash “	1
Sugar Boxes.....	1
Galv. Iron Bread Boxes.....	1
Com. Oil Cans.....	1
Coal Scuttles.....	2
Bath-tub Lining.....	1
Cheese Boxes.....	1
Heater Hood.....	1
Russia Iron Bread Pans.....	22
Wash Basins.....	2
Dust Pans.....	2
Steamer.....	2
	<hr/>
Total.....	199

GREENHOUSE REPORT.

600 Asters.....	\$30 00
1000 Pansies.....	50 00
1 Palm.....	5 00
184 Carnations.....	20 00
1800 Mixed Geraniums.....	180 00
800 Silver leaf Geraniums.....	75 00
200 Musk and Rose Geraniums.....	20 00
400 Fuchsias.....	32 00

812 DEPARTMENT OF CHARITIES AND CORRECTION.

350 Vincas.....	20 00
40 Orange Trees.....	6 00
75 Smilax.....	75 00
3 Centaurias.....	6 00
16 Hydrangeas.....	2 00
20 Oleanders.....	5 00
300 Heliotropes.....	16 00
200 Salvias.....	18 00
50 Caladiums.....	12 00
400 Cannas.....	75 00
400 Ageratums.....	27 00
163 Roses.....	<hr/>
3 Rubber Plants.....	2 00
1800 Coleas.....	90 00
200 Begonias.....	20 00
150 Dusty-millers.....	12 00
100 Daisies.....	8 00
100 Honeysuckles.....	15 00
150 Lantanas.....	12 00
50 Cactus.....	12 50
13 Callas.....	5 00
200 Artillery Plants.....	15 00
40 Variegate Abutilons.....	4 00
26 Hyacinths.....	4 00
13 Leaf Begonias.....	6 00
100 Ivy Geraniums.....	10 00
4 Primroses.....	40
150 Tuberoses.....	15 00
2000 Sadmes.....	50 00
1200 Verbenas.....	50 00
200 Chrysanthemums.....	30 00
4 Hypototics.....	50
25 Cherry trees.....	2 75
200 Lady-slippers.....	15 00

INFIRMARY.

813

6 Lemon Plants.....	1 25
260 Begonia Rubies.....	20 00
4 Croton Plants.....	1 00
10,000 Empty Pots.....	70 00
	<hr/>
	\$1,145 50

FARMER'S REPORT.

Production from farm, live stock and implements.

75 bushels early potatoes.....	@ .95.....	\$ 71.25
35 tons hay.....	@ 12.00.....	420.00
341 bushels oats.....	@ .34	115.94
6½ tons straw.....	@ 7.00.....	45.50
250 pumpkins	@ .04.....	10.00
45 bu. tomatoes.....	@ .60.....	27.00
1325 early cabbage.....	@ .05.....	136.25
350 late "	@ .04.....	13.00
3096 ears sweet corn.....	@ .10.....	25.80
180 bunches beets.....	@ .04.....	7.20
175 squash.....	@ .06.....	10.50
320 bunches onions.....	@ .03.....	9.60
38 bu. rutabagas.....	@ .45.....	17.10
30 " beans.....	@ 1.00.....	30.00
35 " peas.....	@ .80.....	25.80
25 " parsnips	@ .50.....	12.50
230 " bunches radishes.....	@ .3.....	6.90
555 heads lettuce.....	@ .3.....	16.65
37 bu. carrots	@ .40.....	14 80
20 " turnips.....	@ .35.....	7.00
345 heads red cabbage.....	@ .5.....	17.25
35 bu. mangel.....	@ .35.....	12.25
	<hr/>	
Total.....		\$1,052.29

LIVE STOCK, ETC.

3 horses.....	@	\$120.00.....	360.00
4 "	@	90.00.....	360.00
21 breeding sows.....	@	10.00.....	210.00
3 " boars.....	@	12.00.....	36.00
8 fattening hogs.....	@	10.00.....	80.00
4 pigs.....	@	2.50.....	10.00
Total.....			<u>\$1,056.00</u>

FARM IMPLEMENTS, ETC.

100 hotbed sash.....	@	\$1.00.....	\$100.00
1 set ice tools.....	@	45.00.....	45.00
4 sets harness.....	@	12.00.....	48.00
1 ambulance and harness.....	@	375.00.....	375.00
3 double wagons.....	@	55.00.....	165.00
2 spring "	@	75.00.....	150.00
1 phaeton.....	@	65.00.....	65.00
1 lot farming implements.....	@	200.00.....	200.00
Total.....			<u>\$1,248.00</u>

ROOT HOUSE.

30 Bushels Potatoes.....	\$	15.00
20 " Beets		6.00
		<u>\$ 21.00</u>
1000 Tons Ice		2,000.00

BAKERY.

Bake Oven.....	\$	275.00
Stoves, Tools, Pans, Bread Case, etc		153.00
		<u>\$ 428.00</u>

BATH TUBS.

7 Enameled Bath Tubs in Hospital Department.....	\$	490.00
Connecting Pipes, etc., " "		275.00
2 Portable Bath Tubs " "		150.00
2 Enameled " " in Male Insane " "		140.00
2 Iron " " " " " "		40.00
Connecting Pipes, etc., " " " "		150.00
1 Enameled Bath Tub in Female " "		70.00
1 Iron Zinc Lined Bath Tub in Female Insane Dep't..		30.00
2 " " " " " " " " ..		40.00
Connecting Pipes, etc'		150.00
1 Enameled Bath Tub in Steward's Insane Depart.....		70.00
Connecting Pipes, etc.....		75.00
2 Iron Bath Tubs in Male Middle Department		40.00
Connecting Pipes, etc.....		75.00
3 Iron Bath Tubs in Female Middle Department		112.50
		<hr/>
	\$	1,907.50

MISCELLANEOUS.

1,800 ft. Iron Fence on cut stone foundation.....	\$	2,700.00
1,200 ft. Main Water Pipe		1,200.00
1,000 ft. 6 foot flag sidewalk		750.00
250 ft. 4 " " " "		90.00
		<hr/>
	\$	4,740.00

MISCELLANEOUS—CONTINUED.

5 Flower Stands	\$	50.00
2 Lamp Posts		20.00
1 Large Cistern		250.00
2 Swill Hose, Iron Kettles, etc		25.00
Blacksmith shop, Tools, etc.....		500.00
Carpenter " " "		100.00
Radiator and Steam Fitting in Green House.....		375.00
1 Hose Cart and 200 ft. Hose.....		100.00
Iron, Tin and Tools in Tin Shop		50.00
		<hr/>
	\$	1,470.00

RECAPITULATION.

Real Estate and Buildings.....	\$ 669,605.00
Heating Plant and Fire Pumps.....	57,900.00
Household Goods, etc.....	18,781.45
Dry Goods, Groceries, etc.....	1,496.53
Range, etc , Steward's Kitchen.....	375.00
Office Furniture, Safe, etc.....	272.00
Furniture, Reception Room and Pianos	538.75
Watchman's Detector, etc.....	450.00
Chapel	175.00
Drugs, etc	1,050.00
Inmates' Kitchen.....	1,365.00
Vegetables.....	21.00
Ice.....	2,000.00
Bakery.....	428.00
Bath Tubs, etc.....	1 907.50
Miscellaneous	4,740.00
"	1,470.00
Greenhouse.....	1145.50
Farmer's Report	1,052.29
Live Stock	1.056.00
Ambulance, Wagons, Farm Implements.....	1,248.00
	<hr/>
	\$ 767,077.02

City Hospital.

ANNUAL REPORT OF THE MEDICAL STAFF, 1893.

To Wm. J. McKinnie, Esq., Director Charities and Correction:

DEAR SIR:—It again becomes our duty to report to you a year's work at the hospital. 1893 will be long remembered for the increased demand upon this as well as other charities; and we are thankful that through it all you were able to supply the needs of the Hospital Department, so that food, drugs and all requisites were furnished with wonted promptness and of good quality. The following figures will give some idea of what has been done, though only a hospital physician can realize the amount of work these figures represent. The number of inmates of the Infirmary and Insane Departments besides the Hospital proper are mentioned because these inmates are frequently ailing and are cared for by the medical staff the same as patients in the Hospital building. The Infirmary and Insane Departments about amount to a home for incurables. The inmates are of depraved constitutions, many of them aged and afflicted with chronic diseases. If very sick or about to die they are transferred to the Hospital Department in order that everything possible may be done for their relief, although this plan greatly augments the death list of the Hospital. This Hospital is also obliged to receive many contagious, critical, even moribund cases which cannot remain at home and are refused admittance elsewhere; besides an occasional intentional unloading onto us of desperate cases.

Number in the Institution January 1st, 1893:

	Males, 383	Females, 224	Total, 607
Number admitted.....	" 843	" 400	" 1243
Births.....	" 16	" 12	" 28
	<hr/>	<hr/>	<hr/>
Total.....	" 1242	" 646	" 1878
No. discharged in 1893...	Males, 689	Females, 388	Total, 1077
" Deaths.....	" 100	" 51	" 151
	<hr/>	<hr/>	<hr/>
Total.....	" 789	" 439	" 1228
Number in the Hospital January 1, 1893:			
	Males, 76	Females, 43	Total, 119
Number admitted.....	" 583	" 325	" 907
	<hr/>	<hr/>	<hr/>
Total.....	" 659	" 368	" 1027

On comparing these tables with those for 1892 it is seen that there were 200 more persons treated in the past than in the preceding year, while the Hospital cared for 250 more patients in 1893 than it did in 1892.

Number of new prescriptions filed and filled during 1893... 9,671
 " " " refilled..... 29,013
 Total number of prescriptions dispensed..... 38,084

The number of operations required and performed was large, and some of them of great professional interest, but not perhaps interesting to the public.

The same harmonious feeling which has characterized the staff since its organization has pervaded it during the past year. The greatest improvement in its working has been in perfecting and systematizing the details of the work.

Quite a number of changes have taken place in the *personnel* of the staff since the list was last published. At present it is composed as follows:

CONSULTANTS.

SURGEONS.

Dr. C. B. Parker.....	564 Euclid avenue
Dr. F. E. Bunts.....	380 Pearl
Dr. N. Stone Scott.....	531 Prospect
Dr. J. K. Sanders.....	176 Euclid avenue
Dr. W. T. Miller.....	417 Superior
Dr. Dudley P. Allen.....	278 Prospect

PHYSICIANS.

Dr. J. H. Lowman.....	441 Prospect
Dr. S. W. Kelley.....	837 Superior
Dr. C. F. Dutton.....	122 Euclid avenue
Dr. J. P. Sawyer	122 Euclid avenue

OBSTETRICIANS.

Dr. H. H. Powell.....	467 Prospect
Dr. H. W. Rogers.....	10 Vestry
Dr. H. J. Lee.....	341 Prospect

GYNECOLOGISTS.

Dr. F. D. Bradenburg.....	99 Huron
Dr. M. Rosenwasser.....	722 Woodland avenue
Dr. W. S. Humiston.....	356 Arcade

OPHTHALMOLOGISTS.

Dr. D. B. Smith.....	Case Building
Dr. A. R. Baker.....	122 Euclid avenue
Dr. H. G. Sherman.....	29 Euclid avenue
Dr. B. L. Millikin.....	278 Prospect

DERMATOLOGIST.

Dr. W. T. Corlett.....	333 Prospect
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NEUROLOGISTS.

Dr. H. S. Upson.....	331 Prospect
Dr. E. G. Carpenter.....	29 Euclid avenue

VISITING STAFF.

Dr. George D. Upson.....	Hickox Building
Dr. J. F. Hobson.....	429 Prospect
Dr. C. A. Haman.....	Euclid avenue
Dr. A. F. Spurney.....	374 Woodland avenue
Dr. G. W. Crile.....	380 Pearl

HOUSE STAFF.

Dr. J. M. Ingersol.....	House Physician
Dr. J. J. Thomas.....	First Assistant House Physician
L. W. Childs.....	Acting Second Assistant House Physician

A pharmacist has been employed to dispense the medicines. When a third assistant house physician can be secured the pharmacist can be released. It is absolutely necessary that the House Staff consist of four members. The duties of the House Physician are in the female ward, with general supervision over

the whole hospital; of the First Assistant, the male ward and also to visit the Infirmary and Insane departments; while the Second and Third assistants, besides aiding in these duties, make the microscopic examinations, the analyses, keep records of the cases, dispense the medicines, etc. The duties of the House Staff are quite arduous, and at present their only recompense is the experience gained under the direction of the Visiting Staff.

Upon the Visiting Staff falls the stress of the professional labor and responsibility, in which they are sustained by the consultants in general medicine and surgery and in the special branches, who are called in when their services are necessary.

I cannot forbear alluding to that which should be a source of pride to the medical profession and of satisfaction to the public, *viz.*: that all these poor, suffering patients are attended free of cost, the staff exerting its best skill in consideration of the scientific and professional interests which attach to the hospital work.

Respectfully submitted,

S. W. KELLEY, M.D.,

Sec'y Medical Staff.

Department of Charities and Correction.

(WORKHOUSE.)

OFFICERS.

HON. WM. J. MCKINNIE,
Director of Charities and Correction.

R. A. BUTLER,
Superintendent of Workhouse.

JOHN A. McINTOSH,
Deputy Superintendent of Workhouse.

GEO. W. LEOHNER,
Bookkeeper.

Superintendent's Report.

CLEVELAND, O., March 24, 1894.

Hon. W. J. McKinnie, Director Charities and Correction:

DEAR SIR:—In conformity with the law establishing the Cleveland Workhouse, I have the honor to invite your attention to the following report, which constitutes the twenty-third annual report of the Superintendent of that Institution.

On January 1st, 1893, there were confined in the Workhouse 349 males, and 56 females, making a total of 405 prisoners. 2942 were committed during the year, of which 2632 were males and 310 were females. 2592 males and 330 females were discharged during the year, leaving a prison population at the close of the year 1893, of 389 males and 36 females, making a total of 425. The commitments for the preceding year, 1892, were 3205, showing a decrease of 283 for the year 1893.

This is indeed encouraging, when we consider the general depression of business throughout the country, and the large number of unemployed in our city. The exceedingly bright condition of affairs thus shown leads us to believe that some reformatations have been made, which may be attributed largely to the religious work conducted in our institution, and the able assistance rendered us by the Rev. Geo. F. Houck, and Capt. H. T. Fisher, who have charge of our Sunday School and regular services.

Capt. Fisher represents the East End Converts and Christian Workers' Union, and was appointed in August last by the Christian Ministers' Union of this city, to direct the non-sectarian religious services held here.

Rev. Geo. F. Houck officiates at Catholic services held on alternate Sundays. We feel indebted to these gentlemen, and

grateful to the ladies and gentlemen who assist them in their work, for which they receive no compensation, and the result of which has been exceedingly encouraging.

I desire, also, to call your attention to the fact that the report shows that about 60 per cent. of the commitments were on the charge of intoxication and about 50 per cent. of those men would make good citizens were they not afflicted with the diseases of alcoholism, and for which we cannot say that they are altogether responsible. I trust that our city may soon see its way clear to establish an institution where these unfortunates may be properly treated for this dreadful disease. The disgrace which accompanies a Workhouse sentence too often falls upon the heads of innocent children, and tends much to discourage them from seeking a proper social standing in our community. In this connection I desire to call your attention to the pressing necessity for suitable accommodations for the army of juvenile offenders thronging our city. Something ought to be done to control and alleviate this most dangerous element, as their number is rapidly increasing. Instead of an occasional isolated case appearing in the Court, it is an almost daily occurrence to see them in groups, arraigned for crimes of various degrees. The Court is helpless to properly dispose of such, there being no alternative but the Reform School. No child should be committed to a reform school until all preventive measures have failed; the risk is too great. To place a child of accidental crime in constant companionship, for a period of years, or even months, with criminals gathered within the borders of the State, is too hazardous, and should not be done.

To commit a child to the Reform School for truancy, which is but another name for incorrigibility, but most surely the first step to crime, is to venture its ruin.

No child should be so subjected. No court has the moral right to do so, and yet such a one allowed to bring itself up untrained and untamed will in many cases grow to be a criminal.

“Prevention is better than cure.” In the interests of society a Home should be established where those delinquents may get a glimpse of right living, where the tendencies to crime may be corrected, thus saving them from themselves and to society. No higher duty can devolve upon the city than the establishing of a local home, where these children may be placed under wholesome discipline and instruction, thereby giving them a chance to become what is their God-given right—a man.

Upon assuming charge of the Institution on the first of July last, I found it absolutely necessary to overhaul and repair all of the machinery. This necessitated the closing down of the factory for six weeks, with an estimated loss on labor of \$2,500. The cost of repairing the machinery in round numbers was \$1,500, making a total of \$4,000. Deduct the \$4,000 from the net expense of maintenance, and it leaves \$3,910.56 as against \$7,080.31 for the preceding year 1892, making the cost of running the institution in 1893, \$3,169.75 less than the previous year.

There remained in the hands of the city treasurer at the close of the year \$4,804.99 with payable bills amounting to \$145.29, leaving a balance of \$4,659.70 over and above all indebtedness. We received a special appropriation of \$10,000, but was obliged to pay bills, contracted during the year 1892, amounting to \$7,182.69.

At the end of the year there was due in bills receivable, \$33,185.84 as against \$24,799.91 at the close of the previous year 1892, making a difference of \$8,385.93 in favor of this year. Add to this amount the bills that were left over from last year, and the total will be \$15,568.62, which more than offsets the appropriation of \$10,000. In 1892 there was a special appropriation of \$40,000 which was expended, and still, at the end of the year there remained \$7,182.69, which we were obliged to pay from this year's business.

Notwithstanding the fact that I took charge of the Institution at a time when the business of the country was practically

suspended, I have, nevertheless, been able to dispose of all the product, and have made a more favorable showing financially than could have been expected. I attribute much of the success to the introduction of new styles and new goods, which I have been able to make from time to time in the factory, and which, to some extent has helped to stimulate trade with our customers.

The financial and statistical tables which form a part of this report, and which have been carefully prepared under my supervision, exhibit in detail the facts above outlined.

It is confidently believed that they will be found accurate and trustworthy, and the information contained in them is given in the form deemed most convenient for reference.

R. A. BUTLER,

Superintendent.

CLEVELAND, O., January 7, 1894.

Hon. W. J. McKinnie, Director of Charities and Correction.

DEAR SIR:—I have the honor to submit the following report. During the six months that I have been the physician of the Workhouse, commencing July 7, 1893, and continuing to Jan. 7, 1894, there have been in the Hospital and daily dispensary of the male department 3,200 medical and surgical prescriptions given the cases treated. In the female department there have been issued in the daily dispensary and hospital 720 prescriptions; the total number of prescriptions in six months being 3,920. Only three of the number treated have died.

The sanitary condition of the Institution is good, everything being kept clean and pure. The food served to the prisoners, both male and female, I inspect almost daily, and know it to be clean, well cooked, of good quality and quantity and healthful.

J. CRAFT, M. D.,

Physician to Workhouse.

Statistical Tables.

STATEMENT OF FINES AND COSTS COLLECTED BY
 THE SUPERINTENDENT IN CITY AND STATE
 CASES FOR THE YEAR ENDING
 DECEMBER 31, 1893.

Months.	City Cases.	State Cases.	Total.
January.....	\$.....	27 43	27 43
February.....		96 00	96 00
March.....			
April.....		182 04	182 04
May.....	341 05	617 68	988 73
June.....	230 20	385 05	615 25
July.....	273 90	313 00	586 90
August.....	225 20	462 77	687 97
September.....	205 40	335 24	540 64
October.....	176 25	178 90	355 15
November.....	239 35	238 80	478 15
December.....	201 80	268 17	469 97
Total.....	\$ 1,893 15	\$ 3,135 08	\$ 5,028 23

TABLE NO. I.
WORKHOUSE POPULATION.

	Males.	Females.	Total.
Remaining January 1, 1893.....	349	56	405
Whole number committed during 1893.....	2,632	310	2,942
Total.....	2,981	366	3,347
Discharged during 1893	2,562	330	2,922
Total remaining December 31, 1893.....	389	36	425

TABLE NO. 2.
DAILY AVERAGE.

	Males.	Females.	Total.	
Daily average January.....	355	49	404	
“ February.....	338	41	379	
“ March.....	325	44	369	
“ April.....	340	45	385	Maximum population Oct. 30th, 467.
“ May.....	348	48	396	Minimum population Feb. 22nd, 358.
“ June.....	345	51	396	Average daily Males, 351.
“ July.....	332	52	384	Average daily Females, 54.
“ August.....	344	63	407	Average daily total, 405.
“ September.....	357	73	430	Officers on board salaries, 36.
“ October.....	372	72	444	
“ November.....	381	62	443	
“ December.....	337	47	414	

TABLE No. 3.

NUMBER RECEIVED EACH MONTH.

	Males.	Females.	Total.
Remaining January 1st, 1893.....	349	56	405
Received during January.....	191	19	210
" February.....	164	20	184
" March.....	206	33	239
" April.....	210	24	234
" May.....	242	33	275
" June.....	255	22	277
" July.....	218	29	247
" August.....	224	40	264
" September.....	228	35	263
" October.....	242	26	268
" November.....	211	16	227
" December.....	241	13	254
Total	2,981	366	3,347
Discharged during 1893.....	2,592	330	2,922
Remaining December 31st, 1893.....	389	36	425

TABLE No. 4.

DISCHARGED DURING EACH MONTH.

	Males.	Females.	Total.
Discharged during January	190	28	218
" February	188	22	210
" March.....	203	29	232
" April.....	204	30	234
" May.....	243	24	267
" June.....	247	23	270
" July.....	217	26	243
" August.....	205	26	231
" September.....	238	32	270
" October.....	210	22	232
" November.....	235	31	266
" December.....	212	37	249
Total	2,592	330	2,922

TABLE No. 5.

HOW DISCHARGED DURING THE YEAR.

	Males.	Females.	Total.
Expiration of sentence, no fine.....	19	5	24
" " " fine and costs paid in cash.....	45	11	56
Fine and costs paid in cash.....	129	19	148
" " " " labor.....	1,526	134	1,660
" " " " " and cash.....	647	121	768
Died.....	6	1	7
Escaped.....	13	.....	13
Pardoned.....	106	23	129
Sentence remitted.....	3	2	5
By order of Court.....	42	5	47
" " " Commissioners Cuyahoga county.....	2	1	3
" " " " other counties.....	6	2	8
" " " Mayor.....	46	6	52
" " " Auditor.....	2	.....	2
Total.....	2,592	330	2,922

TABLE No. 6.

NUMBER OF TIMES COMMITTED.

	Mal s.	Females.	Total.
First Commitment.....	1,576	72	1,648
Second "	467	46	513
Third "	202	12	214
Fourth "	88	20	108
Fifth "	60	13	73
Sixth "	34	16	50
Seventh "	18	8	26
Eighth "	19	5	24
Ninth "	16	12	28
Tenth "	15	7	22
Eleventh "	10	9	19
Twelfth "	8	8	16
Thirteenth "	10	5	15
Fourteenth "	14	5	19
Fifteenth "	11	4	15
Sixteenth "	6	3	9
Seventeenth "	6	4	10
Eighteenth "	12	4	16
Nineteenth "	5	3	8
Twentieth "	4	4	8
Twenty-first "	1	1	2
Twenty-second "	3	4	7
Twenty-third "	2	3	5
Twenty-fourth " .....	.....	1	1
Twenty-fifth "	4	2	6
Twenty-sixth "	3	1	4
Twenty-seventh " .....	.....	1	1
Twenty-eighth " .....	.....	4	4
Twenty-ninth "	4	3	7
Thirtieth "	2	1	3
Thirty-first "	3	2	5
Thirty-second "	3	2	5

TABLE NO. 6—*Continued.*

	Males.	Females.	Total.
Thirty-third commitment	2	1	3
Thirty-fourth "	1	5	6
Thirty-fifth "	1	4	5
Thirty-sixth "		1	1
Thirty-seventh "		1	1
Thirty-eighth "	1		1
Thirty-ninth "	1	1	2
Fortieth "	3	1	4
Forty-first "	2		2
Forty-second "	2	1	3
Forty-third "		2	2
Forty-fourth "	1	1	2
Forty-fifth "	2		2
Forty-eighth "	2		2
Forty-ninth "	1	1	2
Fiftieth "	1	1	2
Fifty-second "	1	1	2
Fifty-third "	1		1
Fifty-fourth "	1		1
Fifty-sixth "		1	1
Fifty-seventh "	1	1	2
Fifty-eighth "		2	2
Fifty-ninth "	1		1
Sixtieth "	1		1
Total	2,632	310	2,942

TABLE NO. 7.
FROM WHAT COURT COMMITTED.

	Males.	Females.	Total.
Common Pleas, Cuyahoga County	40	1	41
" Columbiana "	1		1
" Holmes "	1		1
" Huron "	2		2
" Jefferson "	2		2
" Lorain "	5		5
" Mahoning "	3		3
" Marion "	4		4
" Portage "	1		1
" Richland "	7		7
" Summit "	4		4
" Tuscarawas "	2		2
" Trumbull "	1		1
" Wayne "	2		2
Probate Court, Cuyahoga "	1		1
" Columbiana "	7	1	8
" Huron "	1		1
" Jefferson "	1		1
" Lake "	3		3
" Lorain "	2		2
" Trumbull "	2		2
" Wayne "	3		3
Justices' Court, Carroll "	2		2
" Columbiana "	1		1
" Cuyahoga "	14		14
" Holmes "	1		1
" Jefferson "	1		1
" Lake "	7		7
" Lorain "	2		2
" Mahoning "	2		2
" Portage "	2		2
" Trumbull "		1	1

TABLE No. 7—*Continued.*

	Males.	Females.	Total.
United States District Court.....	15		15
Mayor of Akron.....	106	6	112
" Ashland.....	4		4
" Alliance.....	9		9
" Barberton.....	2		2
" Bedford.....	2		2
" Bucyrus.....	3		3
" Cadiz.....	1		1
" Crestline.....	2		2
" Columbians.....	1		1
" Chicago Junction.....	4		4
" Cuyahoga Falls.....	1		1
" Dennison.....	1		1
" East Liverpool.....	5		5
" Elyria.....	3		3
" Galion.....	1		1
" Glenville.....	1		1
" Hubbard.....	1		1
" Kent.....	1		1
" Leetonia.....	1	3	4
" Lowellville.....	1		1
" Mansfield.....	17	1	18
" Marion.....	5		5
" Medina.....	1		1
" Millersburg.....	4	1	5
" Mingo Junction.....	2		2
" Monroeville.....	1		1
" New Lisbon.....	2	2	4
" Norwalk.....	1		1
" Niles.....	5		5
" Oberlin.....		1	1
" Ravenna.....	1		1
" Salineville.....	1		1

TABLE No. 7—Continued.

	Males.	Females.	Total.
Mayor of Salem.....	3	1	4
" Steubenville.....	2	.....	2
" Vermillion.....	2	.....	2
" Warren.....	11	.....	11
" Wellsville.....	2	.....	2
" West Salem.....	1	.....	1
" Youngstown.....	67	7	74
Police Court, Cleveland.....	2,212	285	2,497
Total.....	2,632	310	2,942

TABLE NO. 8.

COLOR.

	Males.	Females.	Total.
White.....	2,493	286	2,779
Colored.....	139	24	163
Total.....	2,632	310	2,942

TABLE NO. 9.
AGE WHEN COMMITTED.

	Males.	Females.	Total.
Under twenty.....	273	14	287
Twenty and under thirty.....	962	78	1,090
Thirty and under forty.....	710	120	890
Forty and under fifty.....	437	57	494
Fifty and under sixty.....	191	33	224
Sixty and under seventy.....	59	8	67
Seventy and under eighty.....	8		8
Over eighty.....	2		2
Total.....	2,632	310	2,942

TABLE NO. 10.
NATIVITY.

Where Born.	Males.	Females.	Total.
Australia.....	4		4
Austria.....	19		19
Bohemia.....	65		65
Canada.....	74	21	95
China.....	1		1
Denmark.....	2		2
England.....	155	16	171
France.....	9		9
Finland.....	11		11
Germany.....	232	7	239
Halifax.....	1		1
Holland.....	1		1
Hungary.....	15		15
Ireland.....	286	74	340
Isle of Man.....	3		3
Italy.....	9		9
Mexico.....	1		1
Newfoundland.....	1		1
Norway.....	4		4
Nova Scotia.....	1		1
Poland.....	31	3	34
Russia.....	8		8
Sweden.....	7		7
Scotland.....	59	6	65
Switzerland.....	12		12
United States.....	1,617	183	1,800
Wales.....	24		24
Total.....	2,632	2,982	2,942

TABLE NO. II.
EDUCATION.

	Males.	Females.	Total.
Could read and write.....	2,297	248	2,545
Could read only.....	38	14	52
Could neither read nor write.....	297	48	345
Total.....	2,632	310	2,942

TABLE NO. 12.
HABITS OF LIFE.

	Males.	Females.	Total.
Confessed themselves intemperate.....	2,349	290	2,639
Claimed to be temperate.....	283	20	303
Total	2,632	310	2,942

TABLE NO. 13.
SOCIAL RELATIONS.

	Males.	Females.	Total.
Married	793	213	1,006
Single	1,839	97	1,936
Total	3,632	310	2,942

TABLE NO. 14.
INDUSTRIAL RELATIONS.

	Males.	Females.	Total.
Axle makers.....	6	.....	6
Bakers.....	13	.....	13
Barbers.....	40	.....	40
Bar tenders.....	7	.....	7
Brass finishers.....	7	.....	7
Brakemen.....	14	.....	14
Blacksmiths.....	23	.....	23
Blacksmiths' helpers.....	4	.....	4
Brewers.....	3	.....	3
Bridge builders.....	2	.....	2
Brick layers.....	13	.....	13
Brick masons.....	1	.....	1
Bookkeepers.....	6	.....	6
Bookbinders.....	2	.....	2
Bolt turners.....	2	.....	2
Broom makers.....	2	.....	2
Boiler makers.....	34	.....	34
Butchers.....	37	.....	37
Buffers.....	4	.....	4
Cabinet makers.....	3	.....	3
Carpenters.....	90	.....	90
Carpet layers.....	2	.....	2
Carpet weavers.....	4	.....	4
Carriage makers.....	3	.....	3
Carriage painters.....	2	.....	2
Carriage trimmers.....	3	.....	3
Caulkers.....	2	.....	2
Cigar makers.....	21	.....	21
Cigar packers.....	2	1	3
Clerks.....	19	.....	19
Coal miners.....	4	.....	4
Cloak makers.....	.....	2	2
Cooks.....	40	10	50

TABLE NO. 14.—*Continued.*

	Males.	Females.	Total.
Coopers.....	14	.....	14
Core maker	6	.....	6
Coachmen.....	3	.....	3
Coppersmiths.....	1	.....	1
Conductors.....	1	.....	1
Curriers.....	2	.....	2
Dentist.....	1	.....	1
Druggist.....	1	.....	1
Electricians.....	3	.....	3
Engineers.....	28	.....	28
Farmer.....	1	.....	1
Firemen.....	105	.....	105
Fresco Painter.....	1	.....	1
Florists.....	2	.....	2
Furniture finishers.....	3	.....	3
" Packers.....	2	.....	2
Gardeners.....	4	.....	4
Gasfitters.....	1	.....	1
Gas makers.....	3	.....	3
Glass cutters.....	1	.....	1
" blowers.....	3	.....	3
Glazier.....	1	.....	1
Gravel roofers.....	2	.....	2
Grocer.....	1	.....	1
Hardwood finisher.....	3	.....	3
Harness maker.....	5	.....	5
Hatter.....	3	.....	3
Heaters.....	9	.....	9
Horse shoes.....	11	.....	11
Hostlers.....	2	.....	2
Housework.....	.....	285	285
Hucksters.....	3	.....	3
Iron workers.....	5	.....	5

TABLE NO. 14.—*Continued.*

	Males.	Females.	Total.
Japanners.....	3		3
Jewellers.....	4		4
Knitter.....	1		1
Lathers.....	4		4
Laborers.....	1,301		1,301
Laundrymen.....	1		1
Laundresses.....	6		6
Lawyers.....	2		2
Lithographers.....	2		
Machinists.....	28		28
Marble cutters.....	3		3
" polishers.....	3		2
Miners.....	5		5
Mill hands.....	4		4
Masons.....	6		6
Millers.....	3		3
Millwright.....	1		1
Moulders.....	71		71
Musicians.....	9	4	13
Nail makers.....	2		2
Newsboys.....	1		1
Nickel workers.....	2		2
" plater.....	1		1
Painters.....	127		127
Paper hangers.....	13		13
" makers.....	2		2
Pavers.....	4		4
Pattern makers.....	1		1
Plasterers.....	5		5
Plater.....	1		1
Peddlers.....	4		4
Plumbers.....	9		9
Polishers.....	4		4

TABLE No. 14.—Continued.

	Males.	Females.	Total.
Porters.....	2		2
Postal clerk.....	1		1
Potters.....	6	1	7
Press feeders.....	2		2
Pressman.....	1		1
Printers.....	26		26
Puddlers.....	41		41
Physician.....	1		1
Quarrymen.....	4		4
Railroad man.....	1		1
Roughers.....	12		12
Rollers.....	1		1
Sailors.....	54		54
Sail maker.....	1		1
Saloon keeper.....	1		1
Salesmen.....	6		6
Sawyers.....	2		2
Seamstresses.....		5	5
Sewer builders.....	2		2
Slate roofers.....	5		5
Slater.....	3		3
Shipping clerk.....	1		1
Spring makers.....	2		2
Shoe ".....	32		32
Steam fitters.....	5		5
Stenographers.....	2		2
Stewards.....	2		2
Stove molders.....	3		3
Stone cutters.....	14	1	15
" masons.....	5		5
Tinners.....	12		12
Tailors.....	24	1	25
Teamsters.....	1		1

TABLE NO. 14.—*Continued.*

	Males.	Females.	Total.
Telegraphers.....	9		9
Tanner.....	2		2
Tinsmiths.....	8		8
Tool dresser.....	1		1
Undertaker.....	1		1
Upholsterer.....	7		7
Umbrella makers.....	2		2
Varnish makers.....	2		2
Watch makers.....	3		3
Waiters.....	24		24
Whitewashers.....	4		4
Wire drawers.....	13		13
Wood workers.....	3		3
Total.....	2,632	310	2,942

TABLE NO. 15.
NATURE OF OFFENSE.

	Males.	Females.	Total.
Assault.....	8	1	9
Assault and battery.....	162	3	165
Assault against nature.....	1		1
Abusing family.....	2		2
Adultery.....	1	1	2
Attempt to pass counter eit coin.....	2		2
Breaking into railroad car.....	1		1
Breaking into house in daytime.....	8		8
Careless driving.....		2	2
Carrying concealed weapons.....	16		16
Common beggar.....	12		12
Common prostitute.....		7	7
Cruelty to wife.....	10		10
Cruelty to children.....	2		2
Cruelty to animals.....	8		8
Disorderly conduct.....	47	13	60
Disorderly and drunk.....	18	2	20
Disturbance.....	21	6	27
Destruction of property.....	18		18
Destruction of property—malicious.....	3		3
Desertion of children.....	2		2
Escaping from officer.....	2		2
Embezzlement.....	7		7
False pretences.....	2		2
Fornication.....	2		2
Furnishing liquor to person intoxicated.....	1		1
Having in possession counterfeit money.....	2		2
Having in possession counterfeit mould.....	2		2
House breaking.....	11		11
Indecent exposure.....	12		12
Incorrigible conduct.....	5		5
Intoxication.....	1,460	244	1,704

TABLE NO. 15—Continued.

	Males.	Females.	Total.
Intoxication and unlawfully using horse.....	3		3
Intoxication and petit larceny.....	14		14
Intoxication and assault and battery.....	19		19
Keeping house of ill-fame.....	2	4	6
Keeping pool room.....	1		1
Larceny.....	8		8
Lewd and lascivious conduct.....	2	1	3
Neglect of children.....	16		16
Neglect of wife.....	2		2
Obtaining goods by false pretences.....	2		2
Obtaining money by false pretences.....	5		5
Obstructing officer.....	2		2
Passing counterfeit money.....	4		4
Peddling without license.....	2		2
Petit larceny.....	330	16	346
Perjury.....	1		1
Pointing fire arms.....	1		1
Resisting officer.....	15		15
Receiving stolen property.....	6		6
Residing in house of ill-fame.....	2	6	8
Sending obscene matter in mails.....	2		2
Trespassing.....	2		2
Throwing stones at railroad cars.....	2		2
Unlawful use of horse.....	6		6
Vagrancy.....	64	2	66
Violating property ordinance.....	102		102
Violating fire alarm ordinance.....		1	1
Violating railroad ordinance.....	156		156
Violating bathing ordinance.....	3		3
Violating health ordinance.....		1	1
Violating sidewalk ordinance.....	4		4
Violating street ordinance.....	2		2
Violating Sunday ordinance.....	2		2
Violating United States revenue laws.....	2		2
Total.....	2,632	310	2,942

TABLE NO. 16.
SHOWING SENTENCES OF PRISONERS COMMITTED
TO THE WORKHOUSE DURING 1893.

No.		Fine and Costs.	Months.	Days.
855	Sentenced.....	From \$ 1.00 to \$ 5.00	.....	.....
826	"	" 5.00 to 10.00	.....	.....
175	"	" 10.00 to 15.00	.....	.....
91	"	" 15.00 to 20.00	.....	.....
22	"	" 20.00 to 25.00	.....	.....
23	"	" 25.00 to 30.00	.....	.....
18	"	" 30.00 to 35.00	.....	.....
23	"	" 35.00 to 40.00	.....	.....
13	"	" 40.00 to 45.00	.....	.....
13	"	" 45.00 to 50.00	.....	.....
9	"	" 50.00 to 60.00	.....	.....
9	"	" 60.00 to 70.00	.....	.....
4	"	" 70.00 to 80.00	.....	.....
1	"	" 80.00 to 90.00	.....	.....
2	"	" 90.00 to 100.00	.....	.....
2	"	" 100.00 to 125.00	.....	.....
2	"	" 125.00 to 150.00	.....	.....
1	"	" 150.00 to 175.00	.....	.....
1	"	" 175.00 to 200.00	.....	.....
1	"	" 200.00 to 225.00	.....	.....
2	" —no fine.....	.....	.....	10
5	"	" 1.00 to 5.00	.....	10
6	"	" 5.00 to 10.00	.....	10
16	"	" 10.00 to 15.00	.....	10
7	"	" 15.00 to 20.00	.....	10
8	"	" 20.00 to 25.00	.....	10
11	"	" 25.00 to 30.00	.....	10
1	"	" 30.00 to 35.00	.....	10
3	"	" 35.00 to 40.00	.....	10
1	"	" 40.00 to 45.00	.....	10
2	"	" 55.00 to 60.00	.....	10
3	"	" 70.00 to 80.00	.....	10

TABLE NO. 16—Continued.

No.		Fine and Costs.	Months.	Days.
1	Sentenced.....	From \$ 90.00 to \$100.00	.....	10
1	"	" 10.00 to 15.00	.....	15
1	"	" 35.00 to 40.00	.....	15
2	"	" 55.00 to 60.00	.....	15
1	"	" 100.00 to 105.00	.....	15
11	"	" 10.00 to 15.00	.....	20
6	"	" 15.00 to 20.00	.....	20
8	"	" 20.00 to 25.00	.....	20
10	"	" 25.00 to 30.00	.....	20
6	"	" 30.00 to 35.00	.....	20
9	"	" 35.00 to 40.00	.....	20
1	"	" 45.00 to 50.00	.....	20
2	"	" 60.00 to 70.00	.....	20
1	"	" 70.00 to 80.00	.....	20
1	"	" 25.00 to 30.00	.....	25
1	"	" 10.00 to 15.00	.....	28
7	" —no fine .....	.....	.....	30
15	"	" 1.00 to 5.00	.....	30
8	"	" 5.00 to 10.00	.....	30
152	"	" 10.00 to 15.00	.....	30
26	"	" 15.00 to 20.00	.....	30
25	"	" 20.00 to 25.00	.....	30
120	"	" 25.00 to 30.00	.....	30
62	"	" 30.00 to 35.00	.....	30
30	"	" 35.00 to 40.00	.....	30
4	"	" 40.00 to 45.00	.....	30
11	"	" 45.00 to 50.00	.....	30
23	"	" 50.00 to 55.00	.....	30
18	"	" 55.00 to 60.00	.....	30
43	"	" 60.00 to 70.00	.....	30
12	"	" 70.00 to 80.00	.....	30
4	"	" 80.00 to 90.00	.....	30
1	"	" 90.00 to 100.00	.....	30

TABLE NO. 16—Continued.

No.		Fines and Costs.	Months.	Days.
12	Sentenced	From \$105.00 to \$ 10.00	.....	30
7	"	" 110.00 to 125.00	.....	30
4	"	" 125.00 to 150.00	.....	30
4	"	" 175.00 to 200.00	.....	30
2	"	" 200.00 to 210.00	.....	30
1	"	" 210.00 to 225.00	.....	30
1	"	" 225.00 to 240.00	.....	30
6	"	" 240.00 to 250.00	.....	30
1	"	" 250.00 to 300.00	.....	30
1	"	" 325.00 to 335.00	.....	30
1	"	" 335.00 to 450.00	.....	30
1	"	" 1.00 to 5.00	.....	40
2	"	" 10.00 to 15.00	.....	40
1	"	" 15.00 to 20.00	.....	40
1	"	" 20.00 to 25.00	.....	40
1	"	" 50.00 to 60.00	.....	40
1	"	" 90.00 to 100.00	.....	40
1	"	" 100.00 to 105.00	.....	40
3	" —no fine.....		.....	60
2	"	" 5.00 to 10.00	.....	60
5	"	" 10.00 to 20.00	.....	60
2	"	" 20.00 to 30.00	.....	60
5	"	" 30.00 to 35.00	.....	60
2	"	" 40.00 to 50.00	.....	60
6	"	" 50.00 to 60.00	.....	60
6	"	" 60.00 to 70.00	.....	60
1	"	" 70.00 to 80.00	.....	60
3	"	" 100.00 to 110.00	.....	60
2	"	" 120.00 to 125.00	.....	60
1	"	" 125.00 to 130.00	.....	60
2	"	" 150.00 to 160.00	.....	60
1	"	" 200.00 to 225.00	.....	60
1	"	" to 625.00	.....	60

TABLE NO. 16—Continued.

No.		Fines and Costs.	Months.	Days.
5	Sentenced--no fine			90
4	"	From \$ 10.00 to \$ 20 00		90
2	"	" 20 00 to 30 00		90
3	"	" 30 00 to 40 00		90
2	"	" 50 00 to 60 00		90
4	"	" 80 00 to 90 00		90
1	"	" 100 00 to 125 00		90
1	"	" 25 00 to 30 00		100
2	"	" 30 00 to 45 00		120
1	"	" 45 00 to 50 00		120
1	"	" 65 00 to 70 00		120
1	"	" 125 00 to 130 00		182
1	"	" 15 00 to 20 00	2	
1	"	" 50 00 to 60 00	3	
1	"	" 5 00 to 10 00	3	
1	"	" 20 00 to 25 00	3	
1	"	" 25 00 to 30 00	3	
3	"	" 60 00 to 70 00	3	
1	"	" 90 00 to 110 00	3	
1	"	" 200 00 to 225 00	3	
1	" --no fine.....		4	
1	"	" 90 00 to 1 00 00	4	
2	"	" 100 00 to 130 00	4	
2	"	" 340 00 to 370 00	4	
1	"	" 150 00 to 175 00	5	
2	" --no fine.....		6	
3	"	" 10 00 to 20 00	6	
2	"	" 50 00 to 75 00	6	
6	"	" 100 00 to 115 00	6	
2	"	" 150 00 to 200 00	6	
7	"	" 200 00 to 225 00	6	
3	"	" 225 00 to 250 00	6	
3	" one year, no fine.....		1 year	
1	"	100 00		
2,942				

Balance Sheet and Financial Exhibits.

EXHIBIT "A."

STATEMENT OF RECEIPTS AND EXPENDITURES.

		RECEIPTS.		
1893.	Cash in hands of City Treasurer.....		\$12,46 03	
Jan. 1.	Cash in hands of Superintendent.....		300 00	
	Cash receipts for 1893.....		83,175 05	
	Cash receipts tax levied.....		11,839 79	
	Cash receipts tax transferred.....		10,060 00	
				\$117,70 87
		DISBURSEMENTS.		
	Cash paid by warrants on City Treasurer.....	\$112,405 11		
	Balance on hand with City Treasurer.....	4,804 99		
	Balance on hand with Superintendent.....	510 77		
				117,720 87
		DETAILED STATEMENT OF RECEIPTS.		
	Received on brush account.....	\$62,211 65		
	" from boarding Cuyahoga prisoners.....	12,391 00		
	" " sundry County prisoners.....	5,768 49		
	" " United States prisoners.....	574 78		
	" from transporting prisoners.....	480 00		
	" " fines—City cases.....	1,201 75		
	" " repairing shoes.....	6 30		
	" " repairing clothes.....	2 50		
	" " tax levied—net.....	11,839 79		
	" " tax transferred.....	10,000 00		
	" " sale of rags.....	9 49		
	" " sale waste paper.....	2 02		
	" " sale bristle casks.....	16 30		
	" " sale molasses barrels.....	30 80		
	" " sale old brass and iron.....	14 35		
	" " sale varnish barrels.....	5 00		
	" " sale oil barrels.....	2 95		
	" " sale vinegar barrels.....	14 25		
	" " sale tallow and bones.....	40 03		
	" " sale soap boxes.....	8 85		
	" " sale tea lead.....	5 45		
	" " interest.....	196 05		
	" " taxes refunded.....	49 03		
	" " visitors fund.....	144 01		
				\$105,014 84

EXHIBIT B.

STATEMENT SHOWING EXPENSE AND PROFIT.

EXPENSE.		
1893.	Clothing and bedding.....	\$ 3,571 02
	Provisions.....	14,482 39
	Hay and feed.....	572 06
	Furniture and fixtures.....	856 07
	Shoe account.....	410 02
	Expense.....	1,977 64
	Fuel and light.....	4,354 77
	Medical services and supplies.....	250 18
	Implements.....	238 21
	Brush implements.....	1,013 69
	Improvement and repairs.....	298 63
	Engine.....	63 93
	Live stock.....	15 00
	Boiler.....	534 93
	Salaries.....	20,141 03
	Discounts.....	1,124 29
	Freight.....	2,139 70
	Laundry machinery.....	50 00
		\$ 52,048 56
GAINS.		
	In manufacture of brushes.....	22,112 09
	" shoes.....	29 22
	In real estate taxes refunded.....	98 06
	In buildings and fixtures—permanent improvem'ts.....	493 10
	In fines, city cases.....	1,201 75
	In interest.....	424 24
	In boarding prisoners.....	19,779 54
	Net expense of maintaining workhouse.....	7,910 56
		\$ 52,048 56

EXHIBIT

STATEMENT SHOWING ASSETS AND

1883.	ASSETS.		
December 31.	Cash in hands City Treasurer.....	\$ 4,804 99	
	" Superintendent.....	510 77	
	Shoes.....	377 00	
	Soap, stationery, etc.....	312 94	
	Furniture and fixtures.....	6,349 08	
	Clothing and bedding.....	4,663 27	
	Fuel and light, heating apparatus.....	5,109 05	
	Medicines and instruments.....	68 15	
	Hay and feed.....	32 55	
	Lumber, nails, etc., for repairs.....	54 75	
	Live stock—horses.....	900 00	
	Engine, oil, etc.....	1,861 03	
	Brush machinery.....	5,309 42	
	General implements.....	2,426 37	
	Provisions.....	1,417 85	
	Laundry machinery	1,550 00	
	Shoemakers' tools, etc.....	63 55	
	Brush and brush material.....	25,421 45	
	Book accounts.....	27,129 65	
	Bills receivable.....	6,056 19	
	Boilers.....	5,913 41	
	Real estate.....	32,628 01	
	Buildings.....	271,622 03	
			\$ 404,571 51

"C."

LIABILITIES OF THE CLEVELAND WORKHOUSE.

1883.	LIABILITIES.		
December 31.	Book accounts.....	\$ 206 62	
	Assets in excess of liabilities.....	404,364 89	
			\$ 404,571 51
			\$ 404,571 50

EXHIBIT
STATEMENT SHOWING BILLS APPROVED AND

1893.			
January.....	Bills Audited.....	\$11,013 13	
February.....	" "	12,644 33	
March.....	" "	7,645 43	
April.....	" "	11,323 38	
May.....	" "	9,979 60	
June.....	" "	10,428 99	
July.....	" "	11,376 61	
August.....	" "	4,520 94	
September.....	" "	7,370 28	
October.....	" "	7,901 13	
November.....	" "	5,780 50	
December.....	" "	7,007 08	\$106,991 49
	Add for bills not yet audited.....	140 00	
	Add for Dec. 1892 bills paid in 1893.....	5,624 39	5,764 39
			\$112,755 88

“ D. ”

SENT TO THE CITY AUDITOR FOR PAYMENT.

<p>1883. December....</p>	<p>Warrants drawn to date</p> <p>Amount of unpaid bills this date.....</p>	<p>\$112,615 88</p> <p>140 00</p>	<p>\$112,755 88</p> <p>\$112,755 88</p>
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EXHIBIT
SUPERINTENDENT'S

1893. December 31..	Receipts to date	\$ 105,014 84	\$105,014 84
	/		\$105,014 84

" E. "

CASH ACCOUNT.

1883.			
January.....	Cash deposited in City Treasury.....	\$ 9,191 98	
February.....	" "	8,245 35	
March.....	" "	7,185 90	
April.....	" "	15,169 09	
May.....	" "	8,755 93	
June.....	" "	7,742 60	
July.....	" "	7,673 90	
August.....	" "	9,075 52	
September.....	" "	7,488 74	
October.....	" "	5,335 65	
November.....	" "	5,735 41	
December.....	" "	13,414 77	
			\$105,014 84

EXHIBIT

STATEMENT OF THE WORKHOUSE,

1893.	Balance in hands City Treasurer.....	\$12,406 03	
January 1st.....	Cash deposited in City Treasury.....	105,014 84	
December 31st..			\$117,420 87

"F."

SHOWING FUNDS IN CITY TREASURY.

1893.	Warrants paid by City Treasurer.....	\$112,615 88	
December 31st.	Balance in hands " "	4,804 99	
	Total.....		\$117,420 87

EXHIBIT "G."

RECEIPTS AND DISBURSEMENTS ON ACCOUNT OF VISITORS' FUND.

1893.		RECEIPTS.		
January 1st.....	Balance on hand	\$	432 32	
January	Receipts.....		21 76	
February	Receipts.....		20 25	
March.....	Receipts.....		19 05	
April.....	Receipts.....		24 05	
May.....	Receipts.....		16 60	
June.....	Receipts.....		18 15	
July.....	Receipts.....		24 15	
				\$ 576 33
	DISBURSEMENTS.			
December 31st..	Paid for moral instruction.....		375 00	
December 31st..	Balance in City Treasury.....		201 33	
				\$ 576 33

EXHIBIT "H."

STATEMENT SHOWING THE PER CAPITA COST OF
 MAINTENANCE OF PRISONERS IN THE
 CLEVELAND WORKHOUSE FOR THE
 YEAR ENDING DEC. 31, 1893.

Per capita cost of subsistence per annum.....	\$ 32.080	.....
" " day.....	.....	\$ .089
" clothing and bedding per annum.....	8.939	.....
" shoes per annum.....	942	.....
Total per capita cost for support of prisoners per annum.....	42.654	.....
" " " " " day.	.....	.117
Total expense per capita for maintenance and care of prisoners per day.....	.....	.054

ABSTRACT OF ACCOUNTS.

1893.	BRUSH ACCOUNT.	Dr.	Cr.
January 1st.....	To inventory	\$ 20,369 03	
December 31-t..	To purchases for twelve months.....	59,133 04	
	To profit on this account.....	22,112 09	
	By sale of brushes.....		\$ 76,173 66
	By sale of varnish brushes.....		5 00
	By sale of bristle casks.....		14 05
December 31st..	Inventory.....		25,421 45
		\$ 101,614 16	\$ 101,614 16

ABSTRACT OF ACCOUNTS—*Continued.*

1893.	PROVISION ACCOUNT.	Dr.	Cr.
January 1st.....	To inventory	\$ 858 67	
December 31st..	To purchases for twelve months	15,069 50	
	By sale of vinegar barrels		\$ 14 25
	" molasses barrels.....		18 20
	" tallow and bones		40 03
	" tea lead.....		5 45
December 31st..	Inventory		1,417 85
	Expense of this account.....		14,432 39
		\$ 16,928 17	\$ 15,928 17

ABSTRACT OF ACCOUNTS—*Continued.*

1893.	SHOE ACCOUNT.	Dr.	Cr.
January 1st.....	To inventory	\$ 424 09	.....
December 31st..	To purchases for twelve months.....	362 93	.....
December 31st..	By inventory.....		\$ 377 00
	By expense of this account.....		410 02
		\$ 787 02	\$ 787 02

ABSTRACT OF ACCOUNTS.—*Continued.*

1883.	FURNITURE AND FIXTURES.	Dr.	Cr.
January 1st.....	To inventory	\$7,083 81	
December 31st..	" purchases for twelve months.....	171 34	
December 31st..	By inventory		\$6,349 08
	" expense of this account.....		856 07
		\$7,205 15	\$7,205 15

ABSTRACT OF ACCOUNTS.—*Continued.*

1898.	CLOTHING AND BEDDING.	Dr.	Cr.
January 1st....	To inventory	\$6,150 32	
December 31st..	" purchases for twelve months.....	2,186 13	
	By sale of rags.....		\$ 9 66
	" repairing clothes.....		2 50
December 31st..	" inventory		4,653 27
	" expense of this account.....		3,571 02
		\$8,236 45	\$8,236 45

ABSTRACT OF ACCOUNTS.—*Continued.*

1883.	EXPENSE ACCOUNT.	Dr.	Cr.
January 1st.....	To inventory	\$ 299 52	
December 31st..	" purchases for twelve months.....	2,004 93	
	By sale of waste paper.....		\$ 6 52
	" " " soap boxes.....		7 35
December 31st..	" inventory		312 94
	" expense of this account.....		1,977 64
		\$2,304 45	\$2,304 45

ABSTRACT OF ACCOUNTS.—Continued.

1893.	BRUSH IMPLEMENTS.	Dr.	Cr.
January 1st.....	To Inventory.....	\$4,464 00	
December 31st..	" purchases for twelve months.....	1,864 11	
December 31st..	By Inventory.....		\$5,309 42
	" expense of this account.....		1,018 69
		\$6,328 11	\$6,328 11

ABSTRACT OF ACCOUNTS—*Continued.*

1893.	MEDICAL SUPPLIES.	Dr.	Cr.
January 1st.....	To inventory.....	\$ 66 39	
December 31st..	To purchases for twelve months.....	251 94	
December 31st..	By inventory		\$ 68 15
	By expense of this account.....		250 18
		\$318 33	\$318 33

ABSTRACT OF ACCOUNTS—Continued.

1883.	LIVE STOCK.	Dr.	Cr.
January 1st.....	To inventory	\$915 00	
December 31st..	To purchases for twelve months		
December 31st..	By inventory		\$900 00
	By expense of this account.....		15 00
		\$915 00	\$915 00

ABSTRACT OF ACCOUNTS—*Continued.*

1893.	IMPROVEMENT AND REPAIRS.	Dr.	Cr.
January 1st.....	To inventory	\$ 71 02	.....
December 31st..	To purchases for twelve months.....	282 36	.....
December 31st..	By inventory		\$ 54 75
	By expense of this account.....		298 63
		\$ 353 38	\$ 353 38

ABSTRACT OF ACCOUNTS—*Continued.*

1893.	HAY AND FEED.	Dr.	Cr.
January 1st.....	To inventory	\$ 19 22	.....
December 1st...	To purchases for twelve months.....	587 39	.....
December 31st..	By inventory		\$ 32 55
	By expense of this account		574 06
		\$ 606 61	\$ 606 61

ABSTRACT OF ACCOUNTS—Continued.

1893.	ENGINE.	Dr.	Cr.
January 1st	To inventory.....	\$ 1,815 81	
December 31st..	To purchases for twelve months.....	112 10	
December 31st..	By inventory.....		\$ 1,861 03
	By sale of oil barrels.....		2 95
	By expense of this account.....		63 93
		\$ 1,927 91	\$ 1,927 91



Department of Charities and Correction.
(CEMETERIES.)

OFFICERS.

W. J. McKINNIE, Director.
FRED C. EMDE, Supervisor.

WOODLAND.

FRED C. EMDE, Superintendent.
W. W. PHILLIPS, Asst. Superintendent.
E. A. BRIGGS, Asst. Superintendent.

ERIE.

W. S. CRAWFORD, Superintendent.

MONROE.

JOHN D. KOCH, Superintendent.

HARVARD GROVE.

JOHN McGUFFEY, Superintendent.

OFFICE OF SUPERVISOR CEMETERIES. }
CLEVELAND, O., Dec. 31, 1893. }

To Hon. W. J. McKinnie, Director of Charities and Correction:

DEAR SIR:—I have the honor to herewith present you with my annual report of the Cemetery Department for the year ending December 31st, 1893.

Respectfully yours,

FRED C. EMDE,

Supervisor.

Supervisor's Report.

To Hon. W. J. McKinnie, Director of Charities and Correction:

DEAR SIR:—I herewith respectfully submit to you my annual report for the year ending December 31st, 1893.

On examination of the tabulated statements contained therein you will find that the management of the several cemeteries under my supervision has been such, that, notwithstanding the large amount expended for necessary improvements, the purchase of new tools and implements; also the cost of introducing an entire new system of bookkeeping with all the necessary blank forms, orders, etc., there is still a net balance of eleven thousand and twenty-one dollars and fifty-one cents (11,021.51) for the year just ended.

Never before in the history of this department has there been such a large balance, showing that the affairs have been conducted with due regards for the best interests of the city, in a business-like manner and economically. The total cash receipts of the several cemeteries were thirty-six thousand, six hundred and eighty-two dollars and thirty-two cents (\$36,682.32), being five hundred and eighteen dollars and thirty cents (\$518.30) in excess of the receipts for the corresponding period in 1892; whereas the total running expenses for the year were twenty-five thousand, six hundred and sixty dollars and eighty-one cents (\$25,660.81), being four thousand, three hundred and fifty-four dollars and forty-five cents (\$4,354.45) less than they were in 1892.

The total net balance for the year 1892 was six thousand, one hundred and forty-eight dollars and seventy-six cents

(\$6,148.76), and for the year just closed the net balance is eleven thousand and twenty-one dollars and fifty-one cents (\$11,021.51), showing a net gain of four thousand, eight hundred and seventy-two dollars and seventy-five cents (\$4,872.75) over 1892.

The cash receipts at Woodland were twenty-two thousand, seven hundred and eight dollars and sixteen cents (\$22,708.16), and the expenses, seventeen thousand, one hundred and twenty-six dollars and five cents (\$17,126.05), showing a balance of five thousand, five hundred and eighty-two dollars and eleven cents (\$5,582.11) in favor of Woodland Cemetery. At Erie Street Cemetery the receipts were two thousand, eight hundred and sixty-seven dollars and eighty-six cents (\$2,867.86), and the expenses, two thousand, five hundred and forty-five dollars and twelve cents (\$2,545.12) leaving a balance of three hundred and twenty-two dollars and seventy-four cents (\$322.74); (in 1892 there was a deficit of \$127.41 in this Cemetery); at Monroe street Cemetery cash receipts were eight thousand, three hundred dollars and sixty-five cents, and the expenses three thousand, five hundred and twenty dollars and three cents (\$3,520.03) showing the remarkable excess of receipts over expenses of four thousand, seven hundred and eighty dollars and sixty-two cents (\$4,780.62). At Harvard Grove Cemetery the receipts were two thousand, eight hundred and five dollars and sixty-five cents (\$2,805.65), and running expenses, two thousand, four hundred and sixty-nine dollars and sixty-one cents (\$2,469.61), leaving a balance of three hundred and thirty-six dollars and four cents (\$336.04), thus showing that all the cemeteries made a handsome profit during the past year.

The principal improvements made at Woodland Cemetery were: painting the four houses, offices, chapel, barns, fences, etc.; connecting the houses and public places with the sewer on Woodland avenue and Cemetery street; having the entire water system repaired, laying flagging walks around the several houses in place of plank walks, which had become decayed; placing

chairs in the chapel and a number of other minor improvements which must be made from time to time in order to keep the property in good condition.

The money expended in arranging flower beds and filling vases cannot be considered as a permanent improvement, as they last for the season only; but in order to beautify bare spots it is a necessary expense, and must be incurred every season.

Only twenty-four dollars and twenty cents were expended at Erie Street Cemetery, the only improvements required there being a few minor repairs.

At Monroe Street Cemetery one hundred and seventy eight dollars and twenty-five cents (\$178.25) was used for making improvements, which consisted in setting out flowers and shrubs, painting and generally renovating the office and other public buildings in said cemetery.

At Harvard Grove the entire fence, main entrance, tree guards, etc., were newly painted, the house put in good repair, and other minor improvements were made entailing an expense of one hundred and forty-seven dollars and ninety-four cents (\$147.94.)

Money expended for material which is consumed and from which the city derives a profit I have not considered as being spent for improvements; those items all entering in the list as current expenses.

Notwithstanding the terrible drouth last summer, which (to prevent our young trees, shrubs and lawns from dying) necessitated the employment of more help than we would have required under ordinary conditions, the pay roll was over eleven hundred dollars less than in 1889. Last August one of the daily papers devoted a half column in praise of the beautiful appearance of Woodland, and if that, with the frequent compliments tendered by visitors is to be taken as a criterion, our efforts to keep the city of the dead looking beautiful and attractive were not entirely in vain.

The same is also true of the other city burial places; they were all excellently kept.

I would respectfully recommend that steps be taken to put the main drive in Woodland Cemetery from the office to the chapel in better condition.

It is now and always has been (especially in the spring and fall of the year), almost impassable.

The length of this drive is 831 feet, and its width 18 feet.

Erie Street Cemetery demands nothing in the way of improvements, excepting, perhaps, a few minor repairs. It would be, in my opinion, a wise precaution to construct a stone wall along the southeast line of Monroe Street Cemetery where the land slopes abruptly toward the railroad tracks. More or less earth is washed away after every hard rain, and in time more land will be wasted than the cost of this improvement would amount to.

I desire also to call your attention to the fact that the entire water supply at Harvard Grove Cemetery is obtained from two wells. The city water pipes are within about 300 feet of the Fremont street entrance, and at an expense of, perhaps, five hundred dollars it could be put in the cemetery. One of the principal objections people have to buying lots at Harvard Grove is the scant water supply. I am satisfied that should this improvement be made that more Newburgh citizens would patronize this burial place.

It is now my painful duty to report two unfortunate occurrences during the past year. On the night of June 20th, 1893, the safe at Monroe Street Cemetery was blown open by burglars and fourteen dollars and twenty-five cents taken. The safe was ruined, and a new one had to be purchased. The same thing occurred at the office of Woodland on the night of December 14th, 1893, only with more disastrous results; the safe doors were blown off, the windows and office door destroyed and two

hundred and seventy-six dollars and forty-five cents (\$276.45) were taken from the steel chest on the inside of the safe.

I take this opportunity to sincerely thank you for your uniform kindness and courtesy with which you have treated me during my connection with your department, and hope that the friendly feeling may continue to exist.

Before closing, I desire to commend to your favorable consideration Messrs. Phillips, Briggs, Crawford, Koch and McGuffey, to whom I now express my thanks and appreciation, for the very able manner in which they have assisted me in conducting the affairs of this department. They are all worthy of the trust reposed in them.

I now refer you to the tabulated statements contained in this report, which will show in detail the business transacted during the past year.

All of which is most respectfully submitted by your most obedient servant,

FRED C. EMDE,

Supervisor.

CLEVELAND, OHIO. December 31st, 1893.

BURIALS.—WOODLAND CEMETERY.

1883.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Male adults	36	37	33	56	48	49	36	35	32	22	31	43	458
Female adults.....	35	31	30	30	26	28	26	43	24	24	26	43	398
Male minors.....	35	33	51	24	33	32	49	53	26	43	29	44	452
Female minors	29	23	25	25	23	22	47	49	26	26	21	27	353
Total	135	129	139	135	137	131	158	180	108	115	107	157	1631

BURIALS.—ERIE STREET CEMETERY.

1883.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Male adults.....	6	6	6	3	1	2	3	2	2	1	2	6	40
Female adults.....	3	6	5	5	5	1	1	4	4	6	4	7	51
Male minors.....	2	6	5	3	4	3	7	6	6	4	2	4	52
Female minors.....	5	3	4	6	2	5	5	9	5	7	3	2	56
Total	16	21	20	17	12	11	16	21	17	18	11	19	190

BURIALS—MONROE STREET CEMETERY.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1883.													
Male adults.....	14	17	14	10	10	17	15	17	15	9	13	12	161
Female adults.....	10	9	9	11	7	12	7	7	9	8	8	10	107
Male minors.....	12	14	16	23	15	20	26	20	10	16	14	17	203
Female minors.....	12	7	11	9	13	14	25	15	16	15	15	11	163
Totals.....	48	47	50	53	45	63	73	59	50	46	50	50	634

BURIALS.—HARVARD GROVE CEMETERY.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1883.													
Male adults.....	3	3	3	4	6	2	2	5	1	5	5	4	43
Female adults.....	2	4	2	4	2	2	6	3	5	3	4	6	43
Male minors.....	4	3	4	2	5	6	12	7	3	5	2	5	58
Female minors.....	6	6	3	1	4	3	6	12	2	5	2	7	57
Totals.....	15	16	12	11	17	13	26	27	11	18	13	22	201

WOODLAND CEMETERY.

CASH RECEIPTS.

From What Source.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots.....	\$1,025 00	\$1,051 75	\$ 501 00	\$2,504 00	\$1,845 50	\$1,040 50	\$1,071 50	\$1,779 25	\$ 638 80	\$1,196 83	\$ 870 03	\$ 724 75	\$14,646 91
Interments.....	276 50	318 00	385 00	437 00	414 50	288 25	287 00	544 75	335 50	278 25	287 75	369 25	4,236 75
Disinterments.....	17 25	8 50	16 00	17 50	4 75	9 00	4 00	13 50	.....	12 00	11 50	11 00	125 00
Improvements.....	280 20	321 07	141 00	432 40	408 38	423 25	206 60	84 75	118 25	177 60	169 05	173 70	2,946 25
Vault fees.....	74 50	89 50	84 75	127 25	84 50	57 00	25 75	41 00	45 50	54 00	22 00	47 50	753 25
Totals.....	\$1,683 45	\$1,788 82	\$1,527 75	\$3,518 15	\$2,757 63	\$ 818 00	\$1,604 85	\$2,463 25	\$1,136 0	\$1,713 68	\$1,370 33	\$1,326 20	\$22,706 16

CEMETERIES.

DISBURSEMENTS.

For What Purpose.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pay-roll.....	\$ 876 10	\$ 815 20	\$ 848 10	\$1,101 70	\$1,344 70	\$1,485 00	\$1,170 00	\$1,240 94	\$1,183 33	\$1,117 50	\$ 776 50	\$ 797 95	\$12,767 07
Improvements.....	.....	25 50	246 42	473 11	.....	43 00	320 91	220 17	219 75	54 94	34 10	27 21	1,665 15
Current.....	180 77	43 31	255 26	503 91	51 79	219 07	232 50	336 08	140 47	67 58	60 50	601 99	2,083 83
Totals.....	\$1,056 87	\$ 884 01	\$1,349 78	\$2,078 72	\$1,396 49	\$1,747 67	\$1,728 41	\$1,797 24	\$1,553 55	\$1,240 06	\$ 871 10	\$1,427 15	\$17,126 05

ERIE STREET CEMETERY.

CASH RECEIPTS.

From What Source.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots	\$ 107 00	\$ 80 50	\$ 102 00	\$ 220 50	\$ 57 50	\$ 78 00	\$ 241 00	\$ 115 50	\$ 49 50	\$ 51 50	\$ 168 00	\$ 54 00	\$1,331 00
Intorments.....	41 75	56 00	56 00	82 75	55 00	37 50	59 50	63 75	46 25	50 25	34 00	92 25	665 00
Disinterments. ....	.....	.....	.....	8 00	9 00	.....	9 00	.....	.....	.....	.....	.....	26 00
Improvements.	28 26	42 50	47 00	49 40	151 65	82 65	31 00	48 30	73 20	40 00	24 50	.....	618 35
Vault fees.....	19 50	26 88	20 00	54 25	12 50	19 00	19 00	8 00	7 00	3 00	.....	35 50	224 50
Totals.....	\$ 196 51	\$ 214 75	\$ 225 00	\$ 414 90	\$ 295 65	\$ 217 05	\$ 359 50	\$ 255 55	\$ 175 95	\$ 144 75	\$ 226 50	\$ 171 75	\$2,967 86

DISBURSEMENTS.

For What Purpose.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pay-roll.....	\$ 160 25	\$ 171 50	\$ 186 51	\$ 191 63	\$ 210 25	\$ 218 00	\$ 217 00	\$ 219 00	\$ 214 50	\$ 180 75	\$ 153 37	\$ 146 12	\$2,288 88
Improvements.....	.....	.....	.....	.....	.....	.....	7 00	17 20	.....	.....	.....	.....	24 20
Current.....	11 00	19 04	65 78	35 87	10 00	28 08	.....	10 00	4 55	29 72	5 00	33 00	252 04
Totals	\$ 171 25	\$ 190 54	\$ 252 29	\$ 227 50	\$ 220 25	\$ 246 08	\$ 224 00	\$ 246 20	\$ 219 05	\$ 210 47	\$ 158 37	\$ 179 12	\$2,545 12

MONROE STREET CEMETERY.

CASH RECEIPTS.

From What Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots.....	\$ 347 50	\$ 363 00	\$ 290 50	\$ 475 50	\$ 539 00	\$ 756 00	\$ 672 00	\$ 410 00	\$ 393 50	\$ 291 00	\$ 266 50	\$ 301 00	\$5,095 00
Interments	150 50	298 90	142 50	181 50	176 00	237 50	214 00	196 50	170 50	160 00	149 50	164 50	2,151 00
Disinterments			10 50			28 00			2 50	4 00	2 50		47 50
Improvements.....	20 00	46 50	6 00	14 00	297 25	127 00	39 25	63 20	35 25	53 45	63 50	50 75	816 15
Vault fees.....	14 00	15 00	10 50	24 50	12 50	10 50	35 50	2 50	4 50	28 00	6 00	27 50	191 00
Totals.....	\$ 532 00	\$ 632 50	\$ 460 00	\$ 695 00	\$ 1,024 75	\$ 1,159 00	\$ 960 75	\$ 672 20	\$ 606 25	\$ 526 45	\$ 488 00	\$ 543 75	\$ 8,300 65

DISBURSEMENTS.

For What Purpose..	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pay-roll	\$ 204 83	\$ 194 18	\$ 257 33	\$ 298 09	\$ 368 07	\$ 315 52	\$ 311 32	\$ 304 32	\$ 278 07	\$ 244 57	\$ 221 57	\$ 192 07	\$ 3,179 94
Improvements.....						64 56	65 00	25 69					178 25
Current.....	18 55	24 25	9 55	6 75	32 12		35 71		5 97	14 95	8 99	5 00	161 84
Totals.....	\$ 223 38	\$ 218 43	\$ 266 88	\$ 294 84	\$ 400 19	\$ 380 08	\$ 412 08	\$ 330 01	\$ 284 04	\$ 259 52	\$ 230 56	\$ 220 07	\$ 3,520 03

HARVARD GROVE CEMETERY.

CASH RECEIPTS.

From What Source.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots	\$183 50	\$124 50	\$195 40	\$206 50	\$417 25	\$ 85 50	\$125 50	\$124 50	\$ 45 00	\$ 76 50	\$144 50	\$107 00	\$1,835 65
Interments	34 50	58 50	38 50	63 00	64 00	42 50	74 75	65 65	55 75	53 50	34 00	71 25	664 00
Disinterments.....	75	1 75	1 75	5 75	9 25	75	3 00	.....	.....	.....	.....	.....	23 00
Improvements.....	12 50	.....	.....	44 00	97 00	1 00	18 50	3 00	25 50	6 00	16 00	5 00	243 50
Vault Fees.....	.....	1 00	.....	7 00	9 50	.....	7 00	.....	.....	.....	3 50	11 50	39 50
Totals.....	\$341 25	\$185 75	\$243 65	\$326 25	\$597 00	\$144 75	\$228 75	\$193 25	\$128 25	\$136 00	\$198 00	\$194 75	\$2,805 65

DISBURSEMENTS.

For What Purpose.

Pay-roll.....	\$177 00	\$157 12	\$165 00	\$193 50	\$230 25	\$181 50	\$191 25	\$179 50	\$177 00	\$156 00	\$146 00	\$149 00	\$2,163 12
Improvement.....	.....	30 96	28 00	88 98	.....	.....	.....	.....	.....	.....	.....	.....	147 94
Current.....	5 00	.....	9 25	37 80	.....	.....	74 50	.....	.....	10 00	.....	22 00	168 55
Totals	\$182 00	\$188 08	\$202 25	\$320 28	\$230 25	\$481 50	\$265 75	\$179 50	\$177 00	\$166 00	\$146 00	\$171 00	\$2,460 61

RECAPITULATION.

Cemeteries.	Receipts.	Expenses.	Excess.
Woodland	\$ 22,708 16	\$ 17,126 05	\$ 5,582 11
Erie	2,867 86	2,545 12	322 74
Monroe.....	8,300 65	3,520 03	4,780 62
Harvard Grove.....	2,805 65	2,469 61	336 04
Totals.....	\$ 36,682 32	\$ 25,660 81	\$11,021 51

Total receipts ..	\$ 36,682 32
“ expenses.....	25,660 81
Excess of receipts over expenses.....	\$ 11,021 51

This Table shows a comparative statement of Receipts and Expenses and the Net Balances for the years 1892 and 1893.

Cemeteries.	1892.				1893.				
	Receipts.	Expenses.	Excess.	Deficit.	Receipts.	Expenses.	Excess.	Deficit.	
Woodland	\$ 24,134 91	\$ 20,286 32	\$ 3,848 59	\$	\$ 22,708 16	\$ 17,126 05	\$ 5,582 11	\$	
Kirk	2,597 37	2,724 51	.....	127 14	2,897 86	2,545 12	322 74	.....
Monroe	5,966 18	4,112 29	1,873 89	.....	8,300 65	3,520 03	4,780 62	.....
Harvard Grove	3,415 56	2,882 14	563 42	.....	2,045 65	2,469 61	386 04	.....
Totals	\$ 36,164 02	\$ 30,015 26	\$ 6,148 76	\$ 127 14	\$ 36,682 3	\$ 25,660 81	\$ 11,021 51	\$	
Total cash receipts, 1892.....					\$ 36,164 02				
Total expenditures, 1892.....					30,015 26				
Net balance.....					\$ 6,148 76				
Total cash receipts, 1893.....					\$ 36,682 32				
Total expenditures, 1893.....					\$ 25,660 81				
Net balance.....					\$ 11,021 51				

NET INCREASE.

This table shows the net increase in the Cemetery Fund for the past year :

Balance in fund January 1st, 1892.....	\$ 26,761 56
Net increase for 1892.....	6,148 76
Balance in fund January 1st, 1893.....	\$ 32,910 32
Net increase for 1893.....	11,021 51
Balance in fund January 1st, 1894.....	\$ 43,931 83
Total net increase in two years.....	17,170 27
Total net increase in 1892.....	6,148 76
Total net increase in 1893.....	11,021 51

SHOWING THE NUMBER OF LOTS AND GRAVE SPACES SOLD DURING THE YEAR, AND THE CASH RECEIVED, ALSO THE AMOUNT OUTSTANDING ON NOTES.

CEMETERIES.	No. Sold.	Cash.	Credit.	Total.
Woodland.....	678	\$14,646 91	\$ 2,020 87	\$16,667 78
Erie.....	83	1,334 00	165 00	1,499 00
Monroe.....	307	5,695 00	654 00	5,749 00
Harvard Grove.....	113	1,835 65	371 00	2,206 65
Totals.....	1,181	\$22,911 56	\$ 3,210 87	\$26,122 43

SHOWING THE GROSS RECEIPTS OF THE SEVERAL
CEMETERIES FOR THE YEARS 1886 TO 1893,
BOTH INCLUSIVE.

Year.	Woodland.	Erie.	Monroe.	Harvard Grove.
1886	\$ 15,882 38	\$ 2,180 20	\$ 2,799 87	\$ 1,309 50
1887	16,150 51	2,369 54	3,479 95	1,894 14
1888	15,399 26	2,819 60	4,813 55	2,041 15
1889	17,769 80	1,941 09	5,142 84	2,237 38
1890	22,872 48	2,335 00	5,172 12	1,972 83
1891	21,935 66	2,675 45	4,899 55	2,939 74
1892	24,184 91	2,597 37	5,986 18	3,445 56
1893	22,708 16	2,867 86	8,300 65	2,805 65
Total.....	\$ 156,854 16	\$ 19,786 11	\$ 40,594 71	\$ 18,645 95

FINANCIAL SUMMARY.

Balance on hand January 1st, 1893.....			\$ 32,910 32
RECEIVED FROM SALE OF LOTS.			
Woodland.....	\$14,646 91		
Erie.....	1,334 00		
Monroe.....	5,095 00		
Harvard Grove.....	1,835 65		
		\$ 22,911 56	
RECEIVED FOR INTERMENTS.			
Woodland.....	4,236 75		
Erie.....	665 00		
Monroe.....	2,151 00		
Harvard Grove.....	664 00		
		7,716 75	
RECEIVED FOR DISINTERMENTS.			
Woodland.....	125 00		
Erie.....	26 00		
Monroe.....	47 50		
Harvard Grove.....	23 00		
		221 50	
RECEIVED FOR IMPROVEMENTS.			
Woodland.....	2,946 25		
Erie.....	618 36		
Monroe.....	816 15		
Harvard Grove.....	243 50		
		4,624 26	
RECEIVED FOR VAULT FEES.			
Woodland.....	753 25		
Erie.....	224 50		
Monroe.....	191 00		
Harvard Grove.....	39 50		
		1,208 25	
Total receipts.....			\$ 36,682 32
Grand total.....			\$ 69,592 64

FINANCIAL SUMMARY—*Continued.*

AMOUNT PAID—PAY-ROLL AND CURRENT.			
Woodland.....	\$ 15,460 90		
Erie.....	2,520 92		
Monroe.....	3,341 78		
Harvard Grove.....	2,321 67	\$ 23,645 27	
AMOUNT PAID FOR IMPROVEMENTS.			
Woodland.....	1,665 15		
Erie.....	24 20		
Monroe.....	178 25		
Harvard Grove.....	147 94	2,015 53	
Total disbursements.....			\$ 25,660 81
Balance to credit of fund January 1st. 1894.....			43,931 83

The total number of burials in the several cemeteries to January 1st, 1894, are as follows:

Woodland ave. cemetery	30,846
Erie street "	17,094
Monroe street "	16,880
Harvard Grove "	5,186
Total	70,006

FRED C. EMDE,

Supervisor.



